

MARCH 17, 2004

COMPILATION AND UPDATE OF OTHER
SOURCES OF GROUNDWATER INFORMATION
MONTROSE SITE
TORRANCE, CALIFORNIA

DSGWRD 26 - 010

PREPARED FOR:
MONTROSE CHEMICAL CORPORATION OF CALIFORNIA



HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING



HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

Mission City Corporate Center
2365 Northside Drive, Suite C-100
San Diego, CA 92108
Phone: 619.521.0165
Fax: 619.521.8580

March 17, 2004

VIA FEDERAL EXPRESS

Mr. Jeffrey Dhont
Superfund Project Manager
U.S. ENVIRONMENTAL PROTECTION AGENCY
75 Hawthorn Street (SFD-7-1)
San Francisco, CA 94105-3901

Re: Submittal of Final Compilation and Update of Other Sources of Groundwater Information,
Montrose Site, Torrance, California

Dear Mr. Dhont:

Enclosed are cover, text, tables, Figure 3, and Attachment 1 of the document titled:

Final
Compilation and Update of Other Sources of Groundwater Information
Montrose Site
Torrance, California

Please replace the relevant pages of the draft document dated September 15, 2003, with these replacement pages. In addition, an updated well information table for the Boeing site is provided. Please replace the existing table in Appendix H with this new table.

This document is being submitted to the U. S. Environmental Protection Agency (EPA) in accordance with Section 1.4 of the statement of work for the Administrative Order for Initial Groundwater Remedial Design Activities. This document has been prepared to incorporate responses to EPA comments received in correspondence dated February 13, 2004 (Attachment A).

If you have any questions or comments, please contact me.

Sincerely,

HARGIS + ASSOCIATES, INC.

Michael A. Palmer, RG 5915, CHG 146
Principal Hydrogeologist

David R. Hargis, PhD, RG 3824

MAP/ama

Enclosure

8571 dhont05.ama

Other Offices:
Mesa, AZ
Tucson, AZ
Dallas, TX

Mr. Jeffrey Dhont
March 17, 2004
Page 2

cc: Mr. Jeffrey Dhont, U.S. Environmental Protection Agency (3 copies)
Ms. Natasha Raykhman, CH2M Hill (2 copies)
Mr. Steve Acree, U.S. Environmental Protection Agency (1 copy)
Ms. Gloria Conti, Department of Toxic Substances Control (1 copy)
Mr. Frank Gonzales, Department of Toxic Substances Control (1 copy)
Mr. Joe Kelly, Montrose Chemical Corporation of California (1 copy)
Mr. Paul Sundberg, Consultant to Montrose Chemical Corporation of California (1 copy)
Karl Lytz, Esq., Latham & Watkins (1 copy)
Mr. John Dudley, URS Corporation (1 copy)
Luke Mette, Esq., Stauffer Management Company LLC (1 copy)
Paul Galvani, Esq., Ropes & Gray (without enclosure)

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SOURCES OF GROUNDWATER INFORMATION
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TORRANCE, CALIFORNIA
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ATTACHMENT

ATTACHMENT

- | | |
|---|--|
| 1 | ELECTRONIC COPY OF TABLES 3 THROUGH 5 AND FIGURE 3
(CD-ROM) |
|---|--|

ACRONYMS AND ABBREVIATIONS

Akzo Sikkens	Former Sikkens Aerospace Coating, Subsidiary of Akzo
Allied Signal Site B	Allied Signal Site B, Unit 100 Building
Amoco Chemical	Amoco Chemical Company Polystyrene Facility
Arco Number 5108	Arco Service Station Number 5108
BRC	Boeing Realty Corporation
BTEX	Benzene, toluene, ethylbenzene, and xylenes
1,2-DCE	1,2-Dichloroethylene
1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethylene
Del Amo	Del Amo Superfund Site
DIPE	Disopropyl ether
DTSC	Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
ETBE	Ethyl tertiary butyl ether
ILM	International Light Metals
LA RWQCB	Regional Water Quality Control Board - Los Angeles Region
Mobil Oil Refinery	Exxon/Mobil Oil Corporation Torrance Refinery
Montrose	Montrose Chemical Corporation of California
MTBE	Methyl tertiary butyl ether
NPDES	National Pollutant Discharge Elimination System
PCE	Tetrachloroethylene
RCRA	Resource Conservation and Recovery Act
RFI	RCRA facility investigation

ACRONYMS AND ABBREVIATIONS (continued)

SOW	Scope of work
TAME	Tertiary amyl methyl ether
TBA	Tertiary butyl alcohol
1,1,1-TCA	1,1,1-Trichloroethane
TCE	Trichloroethylene
TPH	Total petroleum hydrocarbons
Trico	Trico Industries
UAO	Unilateral Administrative Order
UST	Underground storage tank
VOCs	Volatile organic compounds

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1.0 INTRODUCTION

This report is a compilation of the most current groundwater data available associated with investigations conducted within the vicinity of the Montrose Chemical Corporation of California site in Torrance, California (Montrose). This document has been developed in accordance with the requirements outlined in Section 1.4 of the Unilateral Administrative Order (UAO) Statement of Work (SOW) (U. S. Environmental Protection Agency [EPA], 2003).

1.1 PURPOSE AND SCOPE

The purpose of this report is to provide a compilation of other sources of groundwater information available for sites, which have conducted investigations or remedial activities in the vicinity of the Montrose site (Figure 1) and that may have an influence on the design of the Montrose groundwater remedial system. The sites that were evaluated as described in this report were selected based on their proximity to the Montrose site and the footprint of the proposed remedial action. Based on the work that was done as part of the advance groundwater modeling, all extraction and injection wells as part of the proposed groundwater remedy occur within the approximate footprint of the 1995 parachlorobenzene sulfonic acid plume in the Bellflower sand. To account for changes in the design of the wellfield as a result of future modeling, sites within one half-mile of the one milligram per liter contour of the 1995

parachlorobenzene sulfonic acid plume in the Bellflower sand were evaluated (Figure 2). This compilation of data does not include the adjacent Del Amo Superfund Site (Del Amo), since they are part of the Joint Groundwater Remedy.

These sites were identified through an Environmental Data Resources report (Appendix A). Selected site documents and information were obtained through file reviews conducted at various lead agencies and through discussions with agency personnel. File reviews were conducted at the following agencies:

- California Regional Water Quality Control Board – Los Angeles Region (LA RWQCB); and
- State of California, Department of Toxic Substances Control (DTSC).

In compiling the information and data contained in the report, H+A made numerous inquiries to the above-mentioned agencies. While, all reasonably available relevant information has been obtained, there may be instances that files or reports were not provided to H+A by the agencies during the file review. However, in the event that additional relevant information becomes available in the future, that information will be provided as a supplemental to this report.

In accordance with the requirements of the UAO SOW Section 1.4, the scope of the information for the sites in this report include, where available:

- Site name and address;
- Site location map;
- Status of investigation;
- Well construction details;
- Hydrostratigraphic unit(s) being investigated;
- Recent history of pumping rates, if any;
- Water level data;
- Groundwater gradient and flow direction;
- Water quality data;
- Constituents of concern;

- Analytes being tested for; and
- Frequency of groundwater sampling.

A summary of the status of the sites evaluated has been provided (Table 1). Data available for these sites has also been summarized (Table 2).

Electronic files containing select information has been included on a CD as Attachment 1. The CD includes:

- Well information table including: well ID, x- and y-coordinates, facility/owner, depth, screen interval, and status (Table 3)
- Available 2003 and 2004 water level data (Table 4)
- Available benzene, chlorobenzene, trichloroethylene (TCE), and tetrachloroethylene (PCE) data (Table 5)
- Well location map
- Shapefile of facility boundaries

2.0 SITE INFORMATION

2.1 GROUNDWATER SITES

Sites included in this report are located relative to the Montrose site as shown on Figure 2. A narrative summary of groundwater data available for each site is provided in sections 2.1.1 through 2.1.18. The status and available data for each site are presented in Table 1 and Table 2, respectively. Documentation obtained for each of the sites is provided in Appendix A through Appendix S. Sites with impacted soils where impact to groundwater has not occurred are discussed in section 2.2.

2.1.1 Akzo Sikkens – 20846 Normandie Avenue

The former Sikkens Aerospace Coatings, subsidiary of Akzo (Akzo Sikkens) site is located at 20846 Normandie Avenue and is approximately 2,000 feet southeast of the Montrose property (Figure 2). The site was used to manufacture specialty aerospace coatings and adhesives by the Bostik Division of the Emhart Chemical Group from 1950 through 1984 and later by Akzo Sikkens from 1984 through 1988 (Levine Fricke, 1991). Environmental Control Industries, Inc., currently owns the site. The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. The site investigation is closed (Table 1).

The contaminants of concern for groundwater at the Akzo Sikkens site were benzene, toluene, ethylbenzene and xylenes (BTEX), oxygenates, and chlorinated solvents specifically, PCE, TCE and methylene chloride. Summaries of historical groundwater analytical results for these contaminants and for other volatile organic compounds (VOCs) from January 1990 through September of 1995 were compiled by Levine Fricke and are provided in Appendix B (Levine Fricke, 1995).

Site investigations have been conducted since 1984. A total of 15 monitor wells were installed in the upper Bellflower aquitard (Appendix B). As of 1997, all monitor wells at this site had been destroyed (Levine Fricke, 1995).

Well construction details have been compiled by Levine Fricke and are provided in Table 3 and Appendix B (Levine Fricke, 1990). Water level measurements and water quality samples have generally been collected on a semi-annual basis for these wells (Table 2). Historical groundwater level data from October 1992 through September 1995 have been compiled by Levine Fricke and are provided in Appendix B (Levine Fricke, 1995). Groundwater flow in the upper Bellflower aquitard is to the southeast (Levine Fricke, 1995).

Groundwater remediation at this site included the recovery of 550 gallons of what was assumed to be toluene from a recovery well in June 1984 (Levine Fricke, 1991). Soil remediation included a vapor extraction system (Levine Fricke, 1995). In 1998, the LA RWQCB issued a No Further Action letter for the site (LA RWQCB, 1996).

2.1.2 Allan's Arco Mini Market – 1605 Carson Street

The Allan's Arco Mini Mart site is located at 1605 Carson Street and is approximately 5,800 feet south-southeast of the Montrose property (Figure 2). The facility is an operating mini-market and service station. The LA RWQCB is the lead regulatory agency for soil and groundwater investigations. Site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the Allan's Arco Mini Market site are total petroleum hydrocarbon (TPH) as gasoline, BTEX, and oxygenates, specifically methyl tertiary butyl ether (MTBE), diisopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA). Summaries of historical groundwater analytical results for TPH as gasoline, BTEX and oxygenates from November 1997 through September 2002 were compiled by Waterstone Environmental, Inc. and are provided in Appendix C (Waterstone Environmental, Inc., 2002).

Site investigations have been conducted since 1997. A total of 3 monitor wells were installed in the upper Bellflower aquitard (Appendix C).

Well construction details have been compiled by Tyree Organization and are provided in Table 3 and Appendix C (Tyree Organization, Ltd., 1997 and 2002). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from November 1997 through September 2002 have been compiled by Waterstone Environmental, Inc., and are provided in Appendix C (Waterstone Environmental, Inc., 2002). Groundwater flow in the upper Bellflower aquitard is to the southeast with a gradient of 0.005 (Tyree Organization, Ltd., 2002).

A soil vapor extraction system was installed at the site in 2001 and is currently active (Waterstone Environmental, Inc., 2002).

2.1.3 Allied Signal Site B, Unit 100 Building – 20263 Western Avenue

The former Allied Signal Site B, Unit 100 Building (Allied Signal Site B) site is located at 20263 Western Avenue and is approximately 3,200 feet west of the Montrose property (Figure 2). The facility operated as an aircraft engine manufacturing facility from 1969 until 1999 (SECOR International, 2000). The facility is currently owned by MOOG, Inc. The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. The site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the former Allied Signal Site B are VOCs, specifically 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethylene (1,1-DCE), 1,2,4-methylbenzene, 1,3,5-methylbenzene, toluene, and xylenes. Summaries of historical groundwater analytical results for VOCs as well as metals from August 1995 through April 2002 were compiled by the site contractors and are provided in Appendix D (GeoSyntech, 2002b; Parsons Engineering Science, 1997; SECOR International, 2000).

Site investigations have been conducted since 1994. A total of 29 monitor wells were installed in the lower-perched aquifer and Gardena aquifer, both which seem to correlate with the upper Bellflower aquitard (Table 2; Appendix D). As of 1997, 2 monitor wells have been destroyed (Parsons Engineering Science, Inc., 1997).

Well construction details have been compiled by the site contractors and are provided in Table 3 and Appendix D (GeoSyntec, 2002a; Hydrologue, 1997; Parsons Engineering Science, Inc., 2000; SECOR International, 2000). Historical groundwater level data from July 1995 through April 2002 have been compiled by the site contractors and are provided in Appendix D (GeoSyntec, 2002b; Parsons Engineering Science, Inc., 1997; SECOR International, 2000). Groundwater flow in the Gardena aquifer is to the southwest with a gradient of 0.001 (GeoSyntec, 2002b).

Soil remediation at this site included soil excavation (Hydrologue, 1998). Remedial pumping has been occurring at well DVEW-2 since 1998 (GeoSyntec, 2002b).

2.1.4 Amoco Chemical – 1225 West 196th Street

The former Amoco Chemical Company Polystyrene Facility (Amoco Chemical), also referred to as the American Polystyrene Corporation, is located at 1225 West 196th Street and is approximately 1,400 feet north-northeast of the Montrose property (Figure 2). Facility operations consisted of formulating polystyrene product using styrene monomer as a process raw material since 1962 (Amoco Corporation, 1992). The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. Site investigation does not appear to be currently active, however, no documentation to indicate that the site is closed was found during the file review for this site (Table 1).

The contaminants of concern for groundwater at the Amoco Chemical site were 1,1-DCE, 1,2-dichloroethylene (1,2-DCE), TCE, PCE, methylene chloride and 1,1-dichloroethane (1,1-DCA). Summaries of historical groundwater analytical results from February 1990 through

January 1992 were compiled by Amoco Corporation (Table 2; Appendix E) (Amoco Corporation, 1992).

Site investigations have been conducted since 1986. A total of 6 monitor wells were installed in the upper Bellflower aquitard (Appendix E).

Well construction details and groundwater level data were not found during file review for the Amoco Chemical Facility.

Some soil investigation has been conducted at the site.

2.1.5 Arco Service Station Number 5108 – 21704 Figueroa Street

The former Arco Service Station Number 5108 (Arco Number 5108) site is located at 21704 Figueroa Street and is approximately 7,100 feet south-southeast of the Montrose property (Figure 2). The facility operated as a service station. Underground storage tanks (USTs) and associated piping were removed in 1994 (Brown and Caldwell, 1998). The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. The site investigation is closed (Table 1).

The contaminants of concern for groundwater at the Arco Station Number 5108 site were TPH, BTEX, and MTBE. Summaries of historical groundwater analytical results for TPH, BTEX, and MTBE from July 1992 through October 1997 were compiled by Brown and Caldwell and are provided in Appendix F (Brown and Caldwell, 1997 and 1998).

Site investigations have been conducted since 1991. A total of 6 monitor wells were installed in the upper Bellflower aquitard (Table 3; Appendix F). As of 1998, all site wells were destroyed.

Well construction details have been compiled by Brown and Caldwell and are provided in Appendix F (Brown and Caldwell, 1992 and 1994). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2).

Historical groundwater level data from July 1992 through December 1995 have been compiled by Brown and Caldwell and are provided in Appendix F (Brown and Caldwell, 1997).

Remediation of hydrocarbon-impacted soils by vapor extraction was conducted at the site from August 1996 until late 1997 at which point soil remediation had been completed (Brown and Caldwell, 1998). In 1998, the LA RWQCB issued a No Further Action letter for the site (LA RWQCB, 1998).

2.1.6 Armco Royal Boulevard Land Reclamation – 20950 Royal Boulevard

The former Armco Royal Boulevard Land Reclamation site is located at 20950 Royal Boulevard and is approximately 2,700 feet southeast of the Montrose property (Figure 2). The site, a former disposal facility, received wastes from Armco's Torrance steel and machinery manufacturing facility from 1956 until 1985 (R.L. Stollar & Associates, 1990). The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. Site investigation does not appear to be currently active, however, no documentation to indicate that the site is closed was found during file review for this site (Table 1).

The contaminants of concern for groundwater at the site were inorganics and VOCs, specifically benzene, 1,2-DCA, 1,2-dichloropropane and chlorobenzene. Water quality hydrographs summarizing groundwater analytical results for selected inorganics and VOCs from June 1988 through November 1989 were compiled by R.L. Stollar & Associates and are provided in Appendix G (R.L. Stollar & Associates, 1990).

Site investigations were conducted from 1988 through 1991. A total of 10 monitor wells were installed (Appendix G).

Well construction details were not found during file review for this site. Water quality samples have generally been collected on a monthly basis (Table 2). Historical groundwater level data for the site wells have been compiled by R.L. Stollar & Associates and are provided in

Appendix G (R.L. Stollar & Associates, 1990). Groundwater flow in the upper Bellflower aquitard is reportedly to the southeast with a gradient of 0.001 (R.L. Stollar & Associates, 1990).

2.1.7 Boeing C-6 Facility – 19503 Normandie Avenue

The following sections regarding activities and conditions at the Boeing site were obtained from site assessment and monitoring reports.

The Boeing site is located at 19503 Normandie Avenue and is directly north of the Montrose property. The Boeing site consists of approximately 170 acres (Haley & Aldrich, 2003a). A number of entities owned and operated the site as a manufacturing facility for aircraft components until 1992. Although most manufacturing operations ceased in 1992, a limited amount of assembly and warehousing continued through the mid-1990s. The Boeing Company took ownership of the site in 1997 when it merged with McDonnell Douglas Corporation. The plant buildings have since been demolished and the site is currently being redeveloped by the Boeing Realty Corporation (BRC).

The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations conducted at the Boeing site. The site investigation is currently active (Table 1).

The contaminants of concern at the Boeing C-6 Facility are VOCs, specifically TCE, 1,2-dichloroethylene (1,2-DCE), 1,1,1-TCA, and 2-butanone. Summaries of historical groundwater analytical results for VOCs from March 1987 through March of 2003 have been compiled by Haley & Aldrich and are provided in Appendix H (Haley & Aldrich, 2003b).

Numerous phases of subsurface soil and groundwater investigations related to former Boeing site operations have been conducted at the site since the mid-1980s (Haley & Aldrich, 2002). Groundwater investigation activities at the site began in 1987. Since then, a total of 40 groundwater monitor wells have been installed at the Boeing site while 20 wells have been abandoned due to redevelopment activities (Haley & Aldrich, 2003b). Most groundwater

monitor wells installed by BRC are screened in the upper Bellflower aquitard (Table 2; Appendix H). Three monitor wells are screened in the Bellflower sand (Appendix H).

Well construction details have been compiled by Haley & Aldrich and are provided in Table 3 and Appendix H (Haley & Aldrich, 2003b). Historical groundwater level data from November 1987 to March 2003 have been compiled by Haley & Aldrich (Table 2; Appendix H) (Haley & Aldrich, 2003b). Groundwater flow in the Bellflower sand is to the south directly below the facility, to the south-southwest at the eastern margin of the property, and to the south-southeast at the western margin of the property. Groundwater gradient in the Bellflower sand is 0.001 (Haley & Aldrich, 2002).

During 2001 and 2002, a site-wide groundwater investigation was performed under a cooperative agreement between BRC and the LA RWQCB (Haley & Aldrich, 2002). This investigation was conducted in four phases to facilitate data review and investigation adjustment. The source investigation was conducted utilizing the simulprobe groundwater sampling method, which is essentially a one-time-only grab sampling method. Therefore these sample locations cannot be re-sampled. Groundwater samples were collected at multiple depths at a total of 44 boring locations.

Remediation of the two VOC source areas using enhanced bioremediation has been approved by the LA RWQCB and will be implemented in 2003 and 2004, concurrently with development of the Boeing site (Haley & Aldrich, 2003a). Based on the site-wide groundwater investigation, BRC submitted a workplan to the LA RWQCB outlining recommendations to install 7 additional monitor wells in the upper Bellflower aquitard and 7 additional monitor wells in the Bellflower sand to better define the extent of TCE in these zones (Haley & Aldrich, 2002 and 2003a). In addition, BRC is also proposing to install 9 bioremediation monitor wells in both the upper Bellflower aquitard and the Bellflower sand in the vicinity of the two source areas on the Boeing property. Groundwater sampling is currently being performed at the Boeing site semi-annually with sampling occurring in March and September of each year (Haley & Aldrich, 2003b).

2.1.8 Cal Compact Landfill – 20400 Main Street South

The former Cal Compact Landfill site is located at 20400 Main Street South and is approximately 5,900 feet east-southeast of the Montrose property (Figure 2). The facility operated as a class II landfill from 1959 through 1968. The DTSC has acted as the lead regulatory agency for soil and groundwater investigations. The site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the former Cal Landfill site are metals and VOCs, specifically TCE, 1,2-DCE, 1,2-DCA, and vinyl chloride. Summaries of historical groundwater analytical results for metals and VOCs from November 1990 through August 2002 were compiled by Allwest Remediation, Inc. and are provided in Appendix I (Allwest Remediation, Inc., 2002b).

Site investigations have been conducted since 1978. A total of 30 monitor wells were installed in the upper Bellflower aquitard, middle Bellflower aquitard, which seems to correlate with the Bellflower sand aquifer, and Gage aquifer (Appendix I).

Well construction details for the Gage aquifer wells have been compiled by Dames & Moore and are provided in Table 3 and Appendix I (Dames & Moore, 1998). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from November 1990 through September 2002 were compiled by Allwest Remediation, Inc. and are provided in Appendix I (Allwest Remediation, Inc., 2002b). Groundwater flow directions in the upper Bellflower aquitard and middle Bellflower aquitard are to the south-southeast and to the south, respectively (Allwest Remediation, Inc., 2002a). Groundwater flow in the Gage aquifer is to the south (Dames & Moore, 2000).

2.1.9 Gardena Valley Landfills 1 and 2 – Main and Figueroa Streets

The former Gardena Valley Landfills 1 and 2 site is located north of Torrance Boulevard, between Main Street and Figueroa Street and is approximately 4,700 feet east-southeast of the Montrose property (Figure 2). The facility operated as a Class II landfill from 1956 until 1959. The California DTSC has acted as the lead regulatory agency for soil and groundwater investigations. The investigation is currently active (Table 1).

The contaminants of concern for groundwater at the former Gardena Landfills 1 and 2 site are metals and VOCs, specifically TCE, 1,2-DCE, 1,1-DCE, and PCE. Summaries of historical groundwater analytical results for general minerals, metals, semi-volatile organics, and VOCs from 1990 through 1992 were compiled by Bryan A. Stirrat & Associates and are provided in Appendix J (Bryan A. Stirrat & Associates, 1990, 1992, and 1993).

Site investigations have been conducted since 1985. A total of 21 monitor wells were installed in the upper Bellflower aquitard, middle Bellflower aquitard, lower Bellflower aquitard and Gage aquifer (Appendix J). The upper and middle Bellflower aquitards seems to correlate with the upper Bellflower aquitard. The lower Bellflower aquitard seem to correlate with the Bellflower sand aquifer.

Well construction details have been compiled by Bryan A. Stirrat & Associates and are provided in Table 3 and Appendix J (Bryan A. Stirrat & Associates, 1993). Water level measurements and water quality samples were collected between 1990 and 1992 (Table 2). Historical groundwater level data from December 1990 through September 1992 were compiled by Bryan A. Stirrat & Associates and are provided in Appendix J (Bryan A. Stirrat & Associates, 1990, 1992, and 1993). Groundwater flow direction in the upper Bellflower aquitard is variable, groundwater flow direction in the lower Bellflower aquitard and the Gage aquifer is to the southeast (Bryan A. Stirrat & Associates, 1992).

2.1.10 Golden Eagle Refinery and Gardena Valley Landfill Number 5— 21000 Figueroa Street

The former Golden Eagle Refinery site is located at 21000 Figueroa Street and is approximately 4,800 feet southeast of the Montrose property (Figure 2). Site history details for this site were compiled from Integrated Environmental Services reports (Integrated Environmental Services 2000 and 2003a). Activities at the site began in 1922 with the installation of an aboveground storage tank farm comprised of 13 tanks. The Golden Eagle Refinery began operations at the site in 1945. The refinery produced leaded gasoline from 1945 until 1965 and aviation fuel from 1965 until 1984. In addition, Gardena Valley Landfill Number 5, a 10-acre municipal landfill, operated on the site between 1962 and 1963. The site has been developed as a shopping and business center.

The California DTSC and the LA RWQCB have acted as the lead regulatory agencies for soil and groundwater investigations. Site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the former Golden Eagle Refinery site are VOCs, specifically BTEX, vinyl chloride, PCE, and TCE. Summaries of historical groundwater analytical results for VOCs from February 1995 through June 2003 were compiled by Cape Environmental Management and Integrated Environmental Service, Inc., and are provided in Appendix K (Cape Environmental Management, 2001 and 2002; Integrated Environmental Services, Inc., 2003b).

Site investigations have been conducted since 1980. A total of 56 monitor wells were installed in the upper Bellflower aquitard, Bellflower sand aquifer, and Gage aquifer (Appendix K). As of August 2003, 27 of the wells have been destroyed.

Well construction details have been compiled by Integrated Environmental Service, Inc., and are provided in Table 3 and Appendix K (Integrated Environmental Service, 2003). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from June 1985 through June 2003 have been compiled by Cape Environmental Management and Integrated Environmental

Service, Inc., and are provided in Appendix K (Cape Environmental Management, 2001 and 2002; Integrated Environmental Services, Inc., 2003b).

Soil remediation at this site has included bioremediation and soil excavation (Integrated Environmental Services, 2000a). An air sparging and vapor extraction system operated from 1995 until 2000 (Wayne Perry, 2001). A groundwater treatment system currently operates under a National Pollutant Discharge Elimination System (NPDES) permit, and there is an active Monitored Natural Attenuation program (Cape Environmental, 2003; Wayne Perry, 2001).

2.1.11 International Light Metals/Martin Marietta – 19200 Western Avenue

The following sections regarding activities and conditions at the former International Light Metals (ILM) facility were taken directly from site assessment and monitoring reports prepared by consultants for the property owner at the time (TRC 1999, 2001, 2002, and 2003).

The ILM site is located immediately to the west of the Boeing site, approximately 1,200 feet from the Montrose property, and is approximately 67 acres in size (Figure 2). ILM was a former industrial metal processing facility that operated from approximately the beginning of World War II until 1992 (Table 1). ILM operated under a Resource Conservation and Recovery Act (RCRA) Part A permit and a DTSC Hazardous Waste Facility permit. A RCRA Facility Investigation was initiated in 1994 by Martin Marietta at the former ILM facility. The site was demolished during 1995 and 1996. The ILM property was sold in 1997 to Fremont Associates, Inc. who subsequently redeveloped the ILM site through the construction of warehouse and distribution buildings.

The California DTSC has acted as the lead regulatory agencies for soil and groundwater investigations. Site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the ILM site are VOCs, specifically TCE and PCE, and metals. Summaries of historical groundwater analytical results for VOCs and metals

from January 1995 through March 2003 were compiled by TRC and are provided in Appendix L (TRC, 2003).

Several phases of subsurface soil and groundwater investigations have been conducted at the ILM site since 1994. A total of 37 on-site groundwater monitoring wells were eventually installed. By 1997, 15 of the on-site monitor wells were abandoned primarily to facilitate redevelopment activities. Monitor wells were completed in the upper Bellflower aquitard and Bellflower sand (Appendix L). During 1999 an off-site groundwater investigation was conducted as a cooperative effort between Lockheed and BRC, which included the installation of 8 off-site monitor wells in three clusters. In 2001, an additional off-site groundwater investigation was conducted using a combination of hollow stem auger and direct push sampling methods to assess the vertical distribution of contaminants in groundwater in the area downgradient of the former ILM facility. Groundwater samples were collected at 5 locations from the upper Bellflower aquitard, Bellflower sand, and Gage aquifer.

Well construction details for ILM have been compiled by TRC and are provided in Table 3 and Appendix L (TRC, 1999). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from August 1994 through March 2003 were compiled by TRC and are provided in Appendix L (TRC, 2003). Groundwater in the upper Bellflower aquitard generally flows to the east-southeast with a gradient of 0.003 (TRC, 2002). However, groundwater flow direction varies at the site with groundwater flowing to the east at the western portion of the facility and to the south below the western portion of the facility (TRC, 1999).

Pursuant to agreements between DTSC and TRC in September through November 2001, the Phase II Groundwater RCRA Facility Investigation (RFI) Report completed the RFI activities for the ILM site (TRC, 2001 and 2002). Future activities will be directed toward the Corrective Measures phase of the RCRA Corrective Action Program. TRC submitted a workplan for the three deep clustered wells discussed above in March 2002 (TRC, 2002). These wells have been subsequently installed and sampled at least three times (TRC, 2003). Following completion of the well installation activities and four quarters of groundwater monitoring, a

Phase I Corrective Measures Study Report will be prepared and submitted to DTSC (TRC, 2002).

2.1.12 Mobil Oil Corporation Torrance Refinery – 3700 West 190th Street

The Exxon/Mobil Oil Corporation Torrance Refinery (Mobil Oil Refinery) site is located at 3700 West 190th Street and is approximately 4,600 feet west of the Montrose property (Figure 2). The Mobil Oil Refinery has been producing motor fuels, coke, and sulfur from crude oil since 1929 (Booz Allen & Hamilton, 2000). The California DTSC and the LA RWQCB have acted as the lead regulatory agencies for soil and groundwater investigations. The site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the Mobil Oil Refinery site are TPH, BTEX, and MTBE. Summaries of groundwater analytical results for these compounds as well as for VOCs from June through December of 2001 were compiled by URS Corporation and are provided in Appendix M (URS Corporation, 2002).

Site investigations have been conducted since 1979. Over 200 monitor and remediation wells were installed in the perched aquifer, Gage-Gardena aquifer, and Lynwood-Silverado aquifer (Appendix M). The perched aquifer seems to correlate to the upper Bellflower aquitard and Bellflower sand aquifer.

Well construction details have been compiled by URS Corporation and are provided in Table 3 and Appendix M (URS Corporation, 2001 and 2002). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from January 1991 through October 2001 have been compiled by URS Corporation and are provided in Appendix M (URS Corporation, 2002). Groundwater flow in the perched zones is largely indeterminate since it is strongly influenced by the recovery wells at the site; however, groundwater flows radially from a high perched groundwater ridge located at the central portion of the facility (Booz Allen & Hamilton, 2000). Groundwater flow in the Gage aquifer is to the southeast but is locally influenced by the recovery wells (Booz Allen &

Hamilton, 2000). The direction of groundwater flow in the Lynwood-Silverado aquifer is inconclusive, but it is reported to be to the northeast (Booz Allen & Hamilton, 2000).

Soil remediation at the refinery has included bioremediation and soil excavation (Mobil Oil Corporation, 2001). A soil vapor extraction pilot test was completed in 2001 (URS, 2002). Currently, groundwater and product recovery wells are in place for the Bellflower aquitard, Gage and Lynwood aquifers (Booz Allen & Hamilton, 2000). A graph showing annual groundwater extraction volumes from 1995 through 2001 is included in Appendix M (URS Corporation, 2002)

2.1.13 Mobil Service Station 18-MAP – 20802 Vermont Avenue

The Mobil Service Station 18-MAP site is located at 20802 Vermont Avenue and is approximately 3,600 southeast of the Montrose property (Figure 2). The facility is an operating service station with four fuel USTs, ranging in size from 6,000- to 12,000-gallons, and one 6,000-gallon waste oil UST (Kleinfelder, 2001). The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. Site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the Mobil Station No. 18-MAP site are TPH as gasoline, benzene, and MTBE. Summaries of historical groundwater analytical results for TPH as gasoline, BTEX, MTBE, and other oxygenates from February 1998 through July of 2002 were compiled by Kleinfelder and are provided in Appendix N (Kleinfelder, 2002).

Site investigations have been conducted since 1996. A total of 6 monitor wells were installed in the upper Bellflower aquitard (Appendix N).

Well construction details have been compiled by Kleinfelder and are provided in Table 3 and Appendix N (Kleinfelder, 1997). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from February 1998 through July 2002 have been compiled by Kleinfelder and are provided in Appendix N (Kleinfelder, 2002). Groundwater flow in the upper Bellflower aquitard

at this site is variable. Flow directions at the eastern and western portions of the facility are reportedly to the northeast with a gradient of 0.033, and to the northwest with a gradient of 0.025 (Kleinfelder, 2002).

Free product recovery was initiated at well MW-2 in February of 1998. A total of 14.12 gallons of free product had been recovered from this well by October of 2002 (Kleinfelder, 2002). Product removal takes place during monitoring. Currently, there is no remedial pumping occurring at this site (Table 2).

2.1.14 Penske Truck Leasing Company – 19646 Figueroa Street

The Penske Truck Leasing Company site is located at 19646 Figueroa Street and is approximately 5,000 feet northwest of the Montrose property (Figure 2). The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. The site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the Penske Truck Leasing site are TPH as diesel, TPH as gasoline, BTEX, and MTBE. Summaries of historical groundwater analytical results for TPH as diesel, TPH as gasoline, BTEX, and MTBE from September 1995 through January of 2002 were compiled by SECOR International and are provided in Appendix O (SECOR International, 2002).

Site investigations have been conducted since 1994. A total of 9 on-site monitor wells were installed in the upper Bellflower aquitard (Appendix O).

Well construction details have been compiled by SECOR International and are provided in Table 3 and Appendix O (SECOR International, 1996 and 2001). Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from September 1995 through January 2002 have been compiled by SECOR International and are provided in Appendix O (SECOR International,

2002). Groundwater flow in the upper Bellflower aquitard is reportedly to the southwest with a gradient of 0.0019 (SECOR International, 2002).

Soil remediation at this site consisted of an air sparging and vapor extraction system that operated until 1999, at which point soil remediation was completed (SECOR International, 2001). Currently, there is no active remedial pumping occurring at the site (Table 2).

2.1.15 Sav-Mor – 20225 Western Avenue

The former Sav-Mor site is located at 20225 Western Avenue and is approximately 1,050 feet west of the Montrose property (Figure 2). The site is currently owned by Carson Estates Company. Previously the site was owned and operated by Sav-Mor as a gas station. Operations ceased in 1981 and four USTs were removed in 1985 (Environmental Audit, 1997). The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations. The site investigation is closed (Table 1).

The contaminants of concern for groundwater at the site were BTEX. Summaries of historical groundwater analytical results for BTEX, as well as for VOCs, from January 1988 through October 1994 were compiled by Environmental Audit and are provided in Appendix P (Environmental Audit, 1997).

Site investigations were conducted from 1988 through 1994. A total of 15 monitor wells were installed in the upper Bellflower aquitard (Appendix P). As of 1997, 11 of the site wells had been destroyed.

Well construction details were not found during file review for this site. Water quality samples have generally been collected on a quarterly basis (Table 2). Initial and last groundwater level data for the site wells have been compiled by Environmental Audit and are provided in Appendix P (Environmental Audit, 1997). No other groundwater level data was found during file review for this site. Groundwater flow in the upper Bellflower aquitard is reportedly to the northeast (Environmental Audit, 1997).

Soil remediation at this site was completed in 1994 (Environmental Audit, 1997). Groundwater remediation consisted of a year-long groundwater extraction program in which two site wells were bailed until dry on a weekly basis from March of 1992 to March of 1993 (Environmental Audit, 1997). In 1997, the LA RWQCB issued a No Further Action letter for the site (LA RWQCB, 1997).

2.1.16 Trico Industries – 19706 Normandie Avenue/1206 196th Street

The former Trico Industries (Trico) site, also referred to as the PACCAR site, is approximately 800 feet north-northeast of the Montrose property (Figure 2). The former Trico site manufactured paint and oil well completion equipment and was a subsidiary of PACCAR, Inc. (HartCrowser, Inc., 2000). The subsidiary was sold in 1997 at which point the western portion of the facility was sold to Mighty Enterprises and the eastern portion was leased to Mighty Enterprises by PACCAR, Inc. (PACCAR, 2001). The site is currently used for the manufacturing of machinery for the aerospace industry (HartCrowser, Inc., 2000). The former Trico site is listed under 19706 Normandie Avenue and 1206 West 196th Street representing the western and eastern portions, respectively. The LA RWQCB is the lead regulatory agency for soil and groundwater investigations. The site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the former Trico site are VOCs, specifically 1,1,1-TCA, 1,1-DCE, 1,1-DCA, TCE, and PCE. Summaries of historical groundwater analytical results for VOCs from 1987 through 2000 have been compiled by H2Science and HartCrowser, Inc. (Table 2; Appendix Q) (H2Science, 1995; HartCrowser, Inc., 2002b).

Site investigations were conducted since 1987. A total of 7 monitor wells were installed in the upper Bellflower aquitard (Appendix Q). 2 wells, MW-1 and MW-2, were abandoned in 1998 because they were screened across two water-bearing zones (HartCrowser, Inc., 2000).

Well construction details have been compiled by H2Science and HartCrowser, Inc., and are provided in Table 3 and Appendix Q (H2Science, 1995; HartCrowser, Inc., 2000). Monitor wells

MW-1 and MW-2 were sampled five times from 1987 through 1995, monitor wells MW-3 and MW-4 were sampled twice from 1995 to 2000, and monitor wells MW-5, MW-6, and MW-7 were sampled once in 2000. Groundwater elevation data for 1987, 1995, and 2000 have been compiled by H2Science and Hartcrowser, Inc., and are provided in Appendix Q (H2Science, 1995; HartCrowser, Inc., 2002b). Groundwater flow in the upper Bellflower aquitard is reportedly to the southeast (SCS Engineers, 1988).

At the present time, there is no active remedial pumping occurring at the former Trico Industries site (Table 2).

2.1.17 United Oil Service Station Number 65 – 300 Carson Street

The United Oil Service Station Number 65 is located at 300 Carson Street and is approximately 7,800 feet southwest of the Montrose property (Figure 2). The facility is an operating service station for retail sale of gasoline. The LA RWQCB is the lead regulatory agency for soil and groundwater investigations. The site investigation is currently active (Table 1).

The contaminants of concern for groundwater at the United Oil Service Station Number 65 site are TPH as gasoline, BTEX, and oxygenates specifically, MTBE, ETBE, DIPE, TAME, and TBA. Summaries of historical groundwater analytical results for TPH as gasoline, BTEX, oxygenates as well as for inorganics from July 2000 through February of 2002 were compiled by Atlas Environmental Engineering, Inc., and are provided in Appendix R (Atlas Environmental Engineering, 2002b).

Site investigations have been conducted since 1998. A total of 9 monitor wells were installed in the upper Bellflower aquitard (Appendix R). A workplan proposing the installation of additional monitor wells at the site was submitted to the LA RWQCB in 2002 (LA RWQCB, 2002).

Well construction details have been compiled by Atlas Environmental Engineering, Inc., and are provided in Table 3 and Appendix R (Atlas Environmental Engineering, Inc., 2000 and 2001). Water level measurements and water quality samples have generally been collected on a

quarterly basis for these wells (Table 2). Historical groundwater level data from July 2000 through February 2002 have been compiled by Atlas Environmental Engineering, Inc., and are provided in Appendix R (Atlas Environmental Engineering, Inc., 2002b). Groundwater flow in the upper Bellflower aquitard is reportedly to the southeast with a gradient of 0.01 (Atlas Environmental Engineering, 2002b).

Historically, there has been no soil remediation at the site. A workplan proposing a soil vapor extraction and air sparging system has been submitted for the site (LA RWQCB, 2002). As of March 2002, free product has been removed weekly by hand bailing and over pumping (Atlas Environmental Engineering, 2002a). A workplan proposing a free product removal system has been submitted for the site (LA RWQCB, 2002).

2.1.18 Unocal Service Station Number 2529 – 600 Carson Street

The former Unocal Service Station Number 2529 is located at 600 West Carson Street and is approximately 7,000 feet south-southeast of the Montrose property (Figure 2). The facility operated as a service station. The LA RWQCB has acted as the lead regulatory agency for soil and groundwater investigations conducted at the Unocal Service Station Number 2529. The site investigation is closed (Table 1)

The contaminants of concern for groundwater at the former Unocal Station Number 2529 site were TPH, BTEX, and total lead. Summaries of historical groundwater analytical results for TPH, BTEX, and total lead from January 1991 through March 1996 were compiled by England & Associates and are provided in Appendix S (England & Associates, 1996a).

Site investigations have been conducted since 1991. A total of 5 monitor wells were installed in the upper Bellflower aquitard (Appendix S). As of 1996, all of the wells had been destroyed (England & Associates, 1996b).

Well construction details for monitor well B-3 have been compiled by England & Associates and are provided in Table 3 and Appendix S (England & Associates, 1996b). Well construction

details for other site wells were not found during file review for this site. Water level measurements and water quality samples have generally been collected on a quarterly basis for these wells (Table 2). Historical groundwater level data from March 1993 and March 1996 have been compiled by England Shahin & Associates and England & Associates, and are provided in Appendix S (England Shahin & Associates, 1993; England & Associates, 1996a). Groundwater flow in the upper Belflower aquitard is reportedly to the southeast (England Shahin & Associates, 1993).

Soil remediation at this site was completed in April 1996 (England & Associates, 1996b). In 1996, the LA RWQCB issued a No Further Action letter for the site (LA RWQCB, 1996).

2.2 SOILS ONLY SITES

2.2.1 Coca-Cola Bottling Company – 19875 Pacific Gateway

The Coca-Cola Bottling Company is located at 19875 Pacific Gateway Drive and is approximately 800 feet northeast of the Montrose property (Figure 2). The facility is part of the former Del Amo site and currently operates as a distribution facility for the Coca-Cola Bottling Company. The LA RWQCB has acted as the lead regulatory agency for soil investigations conducted at the Coca-Cola Bottling Company. Soil investigation was conducted at the site in 1998, prior to the construction of the Coca-Cola Bottling Company facility. The site investigation is closed.

The contaminants of concern at the Coca-Cola Bottling Company site were polynuclear aromatic hydrocarbons. Soil remediation, completed in 1998, included soil excavation of 1,800 cubic yards of soils containing hydrocarbon concentrations greater than 1,000 milligrams per kilogram (US Technical Environmental Consulting, Inc., 1998).

2.2.2 Jones Chemical – 1401 Del Amo Boulevard

The Jones Chemical site is located at 1401 Del Amo Boulevard, bordering the Montrose property to the west (Figure 2). The California DTSC has acted as the lead regulatory agency for soil investigations conducted at the Jones Chemical site.

A Preliminary Endangerment Assessment report has been submitted to the DTSC in June 1995. The report recommended additional soil investigations to be conducted at the site and proposed two removal actions (Levine Fricke, 1995).

2.2.3 Rollins Leasing Corporation Facility – 20425 South Hamilton Avenue

The Rollins Leasing Corporation Facility is located at 20425 South Hamilton Avenue and is approximately 2,400 feet east-southeast of the Montrose property (Figure 2). The facility overlies the former Gardena Landfill Number 4 and currently operates as a vehicle leasing facility. The LA RWQCB has acted as the lead regulatory agency for soil investigations conducted at the facility. The site investigation is closed.

Soil investigation was conducted at the site in 1985, prior to the construction of the facility (Rollins Leasing Corporation, 1997). Two USTs were abandoned in place in 1992; however, soil borings and soil sampling were not required since the facility overlays the former Gardena Landfill No. 4 (Rollins Leasing Corporation, 1997). The LA RWQCB issued a No Further Action letter for the site in 1997 (LA RWQCB, 1997).

2.2.4 Toyota Motor Sales, USA, Inc. – 19001 Western Avenue

The Toyota Motor Sales, USA, Inc. site is located at 19001 Western Avenue and is approximately 3,600 feet north-northeast of the Montrose property (Figure 2). The facility contains a number of office buildings, a laboratory, a carwash and gas station. The site has 2 10,000-gallon unleaded fuels USTs and a 20,000-gallon diesel UST. The City of Torrance Fire



Department has acted as the lead regulatory agency for soil investigations conducted at the facility. The site investigation is closed.

Six soil vapor extraction wells were install in the vicinity of the tanks in 1985 as part of the city's requirements for monitoring the USTs (LeRoy Crandall and Associates, 1985).

3.0 SUMMARY AND RECOMMENDATIONS

As stated in the introduction to this document, other sites that have conducted investigations or remedial activities in the vicinity of the Montrose site that may have an influence on the design of the Montrose groundwater remedial system are the subject of this data compilation. Upon completion of the file reviews, it has become obvious that some identified sites are closed while others are active, either in investigation or remedial stages. Only one site, for example the Mobile site, involves active pumping of groundwater at this time. Therefore, it is appropriate to sort through these sites to determine which are either no longer a factor to consider for the Montrose remedial design, or that need to be revisited in the future as the actual remedial design draws closer.

3.1 SORTING OF SITES FOR FURTHER ACTION

In order to provide a basis for future action, it is reasonable to sort the sites discussed above into the following categories:

- No Further Action-sites that are closed, are distant from the likely area to be impacted by Montrose groundwater extraction or injection, or are of a nature that will not affect or be affected by the Montrose remedial design.
- Revisit Once at a Future Date Prior to the Beginning of Remedial Design-sites which, given close proximity to the Montrose program or the nature of the ongoing work, have limited potential to affect the Montrose remedial design.
- Conduct Periodic Review-sites undergoing dynamic remedial programs or investigation programs that may lead to remedial action or that may develop data of use to the Montrose remedial design.

3.1.1 Sites Requiring No Further Action

The following sites are closed and no further file review or data compilation is necessary:

- Akzo-Sikkens
- Amoco Chemical
- Arco Service Station Number 5108
- Sav-Mor
- Unocal Service Station Number 2529

3.1.2 Sites to be Revisited Once Prior to Remedial Design

Data presented in this document for many of the sites listed below may be useful to EPA's modeling effort under the UAO. However, the nature of the data and the activities ongoing at these sites is such that there is little value to review the site data on a periodic basis. Nevertheless, as a final prudent check prior to the start of remedial design, a review of the status of these sites should be undertaken to assure nothing has changed sufficiently to impact the Montrose remedial design. These sites include:

- Allan's Arco Mini-Market
- Allied Signal Site B
- Cal Compact Landfill
- Gardena Valley Landfills 1 & 2
- Jones Chemical
- Mobil Service Station 18-MAP
- Penske Truck Leasing Company
- Trico Industries
- United Oil Service Station Number 65

3.1.3 Sites Warranting Periodic Review

Four sites discussed in this document have activities and characteristics, e.g., chemicals of concern, active pumping, etc that warrant periodic review of their programs' information. These sites are as follows:

- **Boeing C-6 Facility:** The Boeing C-6 facility program is focused on organic solvents such as TCE. Future data to be generated by that program is of interest to Montrose's pre-design efforts for the TCE Plume Data Acquisition task under the UAO and possibly the Montrose remedial design.
- **Golden Eagle Refinery and Gardena Valley Landfill Number 5:** This site is performing active pumping of groundwater for remedial purposes southwest of the Montrose Property. Groundwater is being extracted from 6 piezometers, with a system design rate of 15 gallons per minute (Cape Environmental, 2003). The pumping program may be impacted by future pumping by Montrose or may impact the remedial design.
- **International Light Metals Facility:** Similar to the Boeing C-6 facility, the ILM facility program is focused on organic solvents such as TCE. The data and ongoing site activities are of a similar interest to the Montrose TCE Plume Data Acquisition task and future remedial design.
- **Mobil Oil Corporation Torrance Refinery:** The Mobil Oil Corporation Torrance Refinery is performing active pumping of groundwater for remedial purposes west of the Montrose Property. The pumping program may be impacted by future pumping by Montrose or may impact the remedial design.

3.2 RECOMMENDATIONS

For the sites to be revisited once prior to remedial design, it is recommended that the review be completed at a time near the end of the current UAO schedule of activities, consistent with a schedule agreed upon through discussions between Montrose and EPA.

For the sites identified for periodic review, it is recognized that setting an arbitrary schedule for those reviews is difficult, as the availability of new information may not correspond to the scheduled review time. Therefore, as a practical alternative, it is recommended that the responsible properties for these sites be notified of the potential future influence of the Montrose remedial program and a request made to provide groundwater monitoring reports and related documents to Montrose coincident with submission of their reports to their lead regulatory agencies. This approach will assist performing periodic reviews of the newly generated data.

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ATTACHMENT A
RESPONSE TO EPA COMMENTS
ON
DRAFT COMPILATION AND UPDATE OF
OTHER SOURCES OF GROUNDWATER INFORMATION REPORT
(DSGWRD 26-010)
MONTROSE SITE
TORRANCE, CALIFORNIA

Comments received February 13, 2004, in a letter from Mr. Jeffrey Dhont, U.S. Environmental Protection Agency, to Mr. Joe Kelly, Montrose Chemical Corporation.

1. After discussions with EPA, Montrose informally provided two electronic data files: (1) the file with well-IDs, coordinates, facility/owner, hydrostratigraphic unit, depth, and screened interval of wells and (2) the file with property boundaries for each site. We ask that Montrose provide this same information on the CD to be attached to the final Compilation Report. This will ensure that both the data and Report are available for the reader in one place.

Response: An electronic version of the well information data along with the property boundary information files have been provided in a CD as part of the final Data Compilation Report.

2. Based on the Data Compilation Report, there are many monitoring wells at various sites that are either destroyed or no longer monitored. We request that the well status (i.e., destroyed, active, and/or unknown) and the information regarding the availability of 2003/2004 concentration and water level elevation data be added to the electronic well file provided on the CD to be attached to the final Compilation Report so that destroyed wells and wells with recent data can be easily identified.

Response: The electronic well information file has been updated with well status. Information regarding availability of water level elevation and analytical data for 2003 and 2004 has been added to this table as well. This information has been added to the report as Table 3. An electronic version of the table has been provided on CD as part of the final Data Compilation Report.

3. We understand that converting all hard copy data tables into electronic format would be a significant effort, which is not warranted at this time. However, we specifically request that available 2003/2004 concentration data for contaminants benzene, chlorobenzene, TCE and PCE, as well as 2003/2004 water level elevation data should be converted into the electronic format and provided on the CD to be attached to the final Compilation Report.

Response: 2003 data compiled in preparation of the Draft Data Compilation report has been provided. Water level data are provided in Table 4 and benzene, chlorobenzene, TCE and PCE data have been compiled in Table 5 of the report. In addition, some 2004 water level elevation data that became available from efforts pursuant to an EPA request for recent water level data for the groundwater modeling program has also been provided in Table 4 of the report. An electronic version of these tables has been provided on CD as part of the final Data Compilation Report.

4. The well location map for the former International Light Metals (ILM) site and the electronic well file do not include three deep well clusters (BL-9, 10, and 11) installed by ILM on the Boeing Redevelopment Corporation Property. These clusters include Bellflower Sand and Gage Aquifer wells and are important for evaluating groundwater flow and TCE distribution in the vicinity of the joint site. The information on these well clusters should be added to the electronic well file, and the most recent (i.e., 2003 or 2004) TCE and PCE data and water level elevations should be provided in the electronic format on the CD to be attached to the final Compilation Report.

Response: The BL-9, BL-10 and BL-11 well clusters have been added to the electronic well information file. Available 2003 analytical data has been added to the report. Benzene, chlorobenzene, TCE and PCE data table and the water level data tables have also been updated for both the hard copy and electronic version. The well location map provided on the CD has been updated with the location of the well clusters.

5. Table 1 of the text of the Compilation Report should be modified to include the deep well clusters mentioned in comment 4 above.

Response: Table 1 and the text in the Report have been updated to reflect the addition of the well clusters.

6. The text of the final Compilation Report should reference the contents of the CD.

Response: The text of the Report has been revised to reference the CD and its contents.



TABLE 1
OTHER SITES STATUS SUMMARY

SITE NAME	ADDRESS	LEAD AGENCY	SITE STATUS	NUMBER OF WELLS	UNITS MONITORED	COMMENTS
Akzo-Sikkens	20846 Normandie Ave.	LA RWQCB	Closed	15 (destroyed)	UBA	
Allan's Arco Mini Market	1605 Carson St.	LA RWQCB	Active	3	UBA	
Allied Signal Site B	20263 Western Ave.	LA RWQCB	Active	29 (27 existing, 2 destroyed)	UBA	
Amoco Chemical	1225 West 196 th St.	LA RWQCB	Closed	6	UBA	Site does not seem to be active
Arco Service Station Number 5108	21704 Figueroa St.	LA RWQCB	Closed	6 (destroyed)	UBA	
Armco Royal Boulevard Land Reclamation	20950 Royal Boulevard	LA RWQCB	Closed	10		Site does not seem to be active Boring logs were not available to determine units monitored
Boeing C-6 Facility	19503 Normandie Ave.	LA RWQCB	Active	40 (20 existing, 20 destroyed)	UBA BFS	
Cal Compact Landfill	20400 Main St.	DTSC	Active	30	UBA BFS Gage	
Gardena Valley Landfills 1 & 2	Main St. and Figueroa St.	DTSC	Active	21	UBA BFS	
Golden Eagle Refinery and Gardena Valley Landfill Number 5	21000 Figueroa St.	DTSC LA RWQCB	Active	56 (29 existing, 27 destroyed)	UBA BFS Gage	
International Light Metals	19200 Western Ave.	DTSC	Active	37 (22 existing, 15 destroyed)	UBA BFS Gage	



TABLE 1

OTHER SITES STATUS SUMMARY

SITE NAME	ADDRESS	LEAD AGENCY	SITE STATUS	NUMBER OF WELLS	UNITS MONITORED	COMMENTS
Mobil Oil Corporation Torrance Refinery	3700 West 190 th St.	DTSC LA RWQCB	Active	>200	UBA BFS Gage Lynwood	
Mobil Service Station 18-MAP	20802 Vermont Ave.	LA RWQCB	Active	6	UBA	
Penske Truck Leasing Company	19464 Figueroa St.	LA RWQCB	Active	9	UBA	
Sav-Mor	20225 Western Ave.	LA RWQCB	Closed	15 (11 destroyed)	UBA	
Trico Industries	19706 Normandie Ave/ 1206 196 th St.	LA RWQCB	Active	7 (2 destroyed)	UBA	
United Oil Service Station Number 65	300 Carson St.	LA RWQCB	Active	9	UBA	
Unocal Service Station Number 2529	600 Carson St.	LA RWQCB	Closed	5	UBA	

FOOTNOTES

LA RWQCB = Regional Water Quality Control Board, Los Angeles Region
 DTSC = California Environmental Protection Agency, Department of Toxic Substances Control
 UBA = Upper Bellflower aquitard
 BFS = Bellflower sand
 Gage = Gage aquifer
 Lynwood = Lynwood aquifer

TABLE 2
OTHER SITES AVAILABLE DATA

SITE NAME	WELL CONSTRUCTION DETAILS	PUMPING DATA	WATER LEVEL DATA	WATER QUALITY DATA	SITE COCs	MONITORING SCHEDULE
Akzo-Sikkens	Yes	No	1992-1995	1990-1995	BTEX, oxygenates, PCE, TCE, MC	Semi-annual
Allan's Arco Mini Market	Yes	No	1997-2002	1997-2002	BTEX, MTBE, TBA	Quarterly
Allied Signal Site B	Yes	Yes(a)	1995-02	1995-2002	Chlorinated solvents	Sporadic
Amoco Chemical	No	No	N/A	1990-1992	Chlorinated solvents	Sporadic
Arco Service Station Number 5108	Yes	No	1992-1995	1992-1997	TPH, BTEX, MTBE	Quarterly
Armco Royal Boulevard Land Reclamation	No	No	1988-1989	1988-1989	Inorganics and VOCs	Monthly
Boeing C-6 Facility	Yes	No	1987-2003	1987-2003	Chlorinated solvents, 2- butanone	Quarterly
Cal Compact Landfill	Yes (Gage)	No	1990-2002	1990-2002	Chlorinated solvents, metals	Quarterly
Gardena Valley Landfills 1 & 2	Yes	No	1992	1990-1992	Chlorinated solvents and metals	Sporadic
Golden Eagle Refinery and Gardena Valley Landfill Number 5	Yes	No Pumping does occur	1985-2003	1995-2003	BTEX, vinyl chloride, PCE, TCE	Quarterly
International Light Metals	Yes	No	1994-2003	1995-2003	TCE, PCE, hexavalent chromium	Quarterly



TABLE 2
OTHER SITES AVAILABLE DATA

SITE NAME	WELL CONSTRUCTION DETAILS	PUMPING DATA	WATER LEVEL DATA	WATER QUALITY DATA	SITE COCs	MONITORING SCHEDULE
Mobil Oil Corporation Torrance Refinery	Yes	1995-2001	1991-2001	2001	TPH, BTEX, MTBE	Quarterly
Mobil Service Station 18- MAP	Yes	No	1998-2002	1998-2002	TPHg, benzene, MTBE	Quarterly
Penske Truck Leasing Company	Yes	No	1995-2002	1995-2002	TPHd, TPHg, BTEX, MTBE	Quarterly
Sav-Mor	No	No	Initial/Last	1988-1994	BTEX	Quarterly
Trico Industries	Yes	No	1987-2000	1987-2000	VOCs	Sampled 5 times since 1987
United Oil Service Station Number 65	Yes	No	2000-2002	2000-2002	TPHg, BTEX, oxygenates	Quarterly
Unocal Service Station Number 2529	Yes	No	March 1993 March 1996	1991-1996	TPH, BTEX, total lead	Quarterly

FOOTNOTES

(a) Pumping for purpose of free product removal

BTEX = Benzene, toluene, ethylbenzene, xylenes PCE = Tetrachloroethylene
TCE = Trichloroethylene MC = Methylene chloride
MTBE = Methyl tertiary butyl ether TBA = Tertiary butyl alcohol
TPH = Total petroleum hydrocarbons 1,1,1-TCA = 1,1,1-Trichloroethane
1,1-DCE = 1,1-Dichloroethylene 1,2-DCE = 1,2-Dichloroethylene
cis-1,2-DCE = cis-1,2-Dichloroethylene 1,2-DCA = 1,2-Dichloroethane
1,1-DCA = 1,1-Dichloroethane VOCs = Volatile organic compounds
TPHg = Total petroleum hydrocarbons, gasoline
TPHd = Total petroleum hydrocarbons, diesel

TABLE 3
WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
AKE-1	Akzo-Sikkens	197623.639	54285.7488	UBA	83	Unknown	Destroyed		
AKE-2	Akzo-Sikkens	197664.216	54239.5604	UBA	90	Unknown	Destroyed		
AKE-3	Akzo-Sikkens	197797.799	54227.8812	UBA	85	Unknown	Destroyed		
AKE-4	Akzo-Sikkens	197707.493	54277.7481	UBA	85	Unknown	Destroyed		
DM-1	Akzo-Sikkens	197439.691	54537.0003	UBA	81	Unknown	Destroyed		
DM-2	Akzo-Sikkens	198066.253	54321.8098	UBA	69	Unknown	Destroyed		
DM-3	Akzo-Sikkens	197814.505	54802.421	UBA	70	Unknown	Destroyed		
DM-4	Akzo-Sikkens	197663.28	54282.6048	UBA	93	Unknown	Destroyed		
MW-1	Akzo-Sikkens	197827.539	54294.426	UBA	77	57-77	Destroyed		
MW-2	Akzo-Sikkens	197622.297	54178.0981	UBA	85	60-85	Destroyed		
MW-3	Akzo-Sikkens	197567.274	54239.4291	UBA	80	Unknown	Destroyed		
MW-4	Akzo-Sikkens	197459.187	54358.9238	UBA	76	56-76	Destroyed		
MW-5	Akzo-Sikkens	197629.353	54230.6619	UBA	80	55-80	Destroyed		
MW-6	Akzo-Sikkens	197827.599	54250.7249	UBA	80	55-80	Destroyed		
MW-7	Akzo-Sikkens	197796.648	54069.4709	UBA	79	Unknown	Destroyed		
MW-1	Allan's Arco Mini Market	194993.108	51115.5733	UBA	93	69-93	Active		
MW-2	Allan's Arco Mini Market	194996.171	51192.709	UBA	93	69-93	Active		
MW-3	Allan's Arco Mini Market	195049.031	51145.8618	UBA	96	69-93	Active		
DPGW-1	Allied Signal Site B	193956	56863	UBA	95	85-95	Active		
DPGW-2	Allied Signal Site B	193654	56869	UBA	95	85-95	Active		
DPGW-3	Allied Signal Site B	193871	56977	UBA	96	85.5-96	Active		
DVEW-1	Allied Signal Site B	193024	56838	UBA	76.5	36.5-76.5	Active		
DVEW-2	Allied Signal Site B	192983	56843	UBA	77.5	37-77.5	Active		
GGMW-2	Allied Signal Site B	193840	56967	UBA	120	110-120	Active		
GGMW-3	Allied Signal Site B	192846	56837	UBA	120	110-120	Active		
MW-1	Allied Signal Site B	193268	57460	UBA	80	70-80	Active		
MW-2	Allied Signal Site B	193278	57531	UBA	80	70-80	Active		
MW-3	Allied Signal Site B	193539	57828	UBA	80	70-80	Active		
PGW-1	Allied Signal Site B	192843	56906	UBA	73.5	58-73.5	Active		
PGW-2	Allied Signal Site B	193205	56841	UBA	78	63-78	Destroyed		
PGW-3	Allied Signal Site B	193016	57083	UBA	76.5	61.5-76.5	Unknown		
PGW-4	Allied Signal Site B	192923	56599	UBA	74	64-74	Active		
PIIMW-1	Allied Signal Site B	191947	57382	UBA	82	66-81	Active		



TABLE 3

WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
SMW-1	Allied Signal Site B	192332	58419	UBA	90	60-90	Active		
SMW-10	Allied Signal Site B	192878	57076	UBA	86	55-86	Active		
SMW-11	Allied Signal Site B	192834	56928	UBA	85	55-85	Active		
SMW-12	Allied Signal Site B	192350	56949	UBA	85	54-85	Active		
SMW-13	Allied Signal Site B	192040	56923	UBA	66	35.5-66	Active		
SMW-14	Allied Signal Site B	191841	57058	UBA	60.5	30-60.5	Active		
SMW-15	Allied Signal Site B	191986	57504	UBA	90	60-90	Active		
SMW-2	Allied Signal Site B	192668	58417	UBA	90	60-90	Active		
SMW-3	Allied Signal Site B	192697	58168	UBA	88.5	57-88.5	Active		
SMW-4	Allied Signal Site B	192973	58024	UBA	91.5	60-91.5	Active		
SMW-5	Allied Signal Site B	192740	57652	UBA	90.5	60-90.5	Active		
SMW-6	Allied Signal Site B	192992	57520	UBA	90.5	60-90.5	Active		
SMW-7	Allied Signal Site B	192648	57380	UBA	89.5	60-89.5	Active		
SMW-8	Allied Signal Site B	192765	57195	UBA	89.5	53-89.5	Active		
SMW-9	Allied Signal Site B	192959	57187	UBA	85.5	55-85.5	Active		
URS-03	Allied Signal Site B	192742	58446	UBA	Unknown	Unknown	Unknown		
URS-1	Allied Signal Site B	193709	58413	UBA	Unknown	Unknown	Unknown		
V-01R	Allied Signal Site B	192018	58079	UBA	Unknown	Unknown	Unknown		
V-02R	Allied Signal Site B	192091	57369	UBA	Unknown	Unknown	Unknown		
V-09	Allied Signal Site B	191894	57375	UBA	Unknown	Unknown	Unknown		
VI-01R	Allied Signal Site B	192913	57036	UBA	Unknown	Unknown	Unknown		
OW-1	Amoco Chemical	197570.984	59188.0143	UBA	Unknown	Unknown	Unknown		
OW-2	Amoco Chemical	197760.984	59148.0143	UBA	Unknown	Unknown	Unknown		
OW-3	Amoco Chemical	197928.984	59158.0143	UBA	Unknown	Unknown	Unknown		
OW-4	Amoco Chemical	197938.984	59094.0143	UBA	Unknown	Unknown	Unknown		
OW-5	Amoco Chemical	197950.984	59000.0143	UBA	Unknown	Unknown	Unknown		
OW-6	Amoco Chemical	197792.984	59000.0143	UBA	Unknown	Unknown	Unknown		
B-9	Arco Service Station No 5108	201404.088	51001.0888	UBA	Unknown	Unknown	Destroyed		
BC-1	Arco Service Station No 5108	201448.256	51020.9864	UBA	unknown	unknown	Destroyed		
BC-2	Arco Service Station No 5108	201448.519	51047.4996	UBA	unknown	unknown	Destroyed		
BC-3	Arco Service Station No 5108	201362.323	51038.5869	UBA	unknown	unknown	Destroyed		
BC-4	Arco Service Station No 5108	201381.757	50954.9074	UBA	86.5	60-86.5	Destroyed		
BC-5	Arco Service Station No 5108	201420.518	51104.497	UBA	86.5	60-86.5	Destroyed		



TABLE 3

WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
MP-17	Armco	198074.075	54562.3021	UBA	Unknown	Unknown	Active		
MP-20	Armco	198076.539	54055.8617	UBA	Unknown	Unknown	Active		
MP-23	Armco	199400.794	53993.8012	UBA	Unknown	Unknown	Active		
MP-26	Armco	199408.968	54357.3397	UBA	Unknown	Unknown	Active		
MW-27	Armco	198699.501	54296.0472	UBA	77	59-75	Active		
MW-28	Armco	198617.062	54014.1221	UBA	74	54-71	Active		
MW-29	Armco	199035.876	53985.7854	UBA	75	57-73	Active		
RB-1	Armco	198299.074	54636.771	UBA	Unknown	Unknown	Active		
RB-2	Armco	199229.291	54616.2285	UBA	Unknown	Unknown	Active		
RB-3	Armco	198660.131	54368.0819	UBA	Unknown	Unknown	Active		
BL-1	Boeing C-6 Facility	195490.694	60118.9292	UBA	81.5	61.5-81.5	Destroyed		
BL-2	Boeing C-6 Facility	195474.294	59214.6892	UBA	81.5	61.5-81.5	Destroyed		
BL-3	Boeing C-6 Facility	195484.728	58627.2273	UBA	82	62-82	Active	Yes	Yes
BL-4	Boeing C-6 Facility	195605.264	57755.7592	UBA	79	58-78	Destroyed		
BL-5	Boeing C-6 Facility	195669.944	60219.0892	UBA	78.5	58-78	Destroyed		
BL-6	Boeing C-6 Facility	195819.914	59732.0692	UBA	78.5	58-78	Destroyed		
BL-7	Boeing C-6 Facility	195841.424	58963.8192	UBA	78.5	58-78	Destroyed		
BL-8	Boeing C-6 Facility	195818.404	57990.2092	UBA	81	60-80	Destroyed		
DAC-P1	Boeing C-6 Facility	195460	59614	UBA	90	60-90	Active	Yes	Yes
TMW-1	Boeing C-6 Facility	196493.308	59804.4974	UBA	91	66-86	Active	Yes	Yes
TMW-10	Boeing C-6 Facility	197239.257	58838.1273	UBA	85	60.5-80.5	Active	Yes	Yes
TMW-11	Boeing C-6 Facility	197238.7	58096.0726	UBA	83	58-78	Active	Yes	Yes
TMW-12	Boeing C-6 Facility	196796.679	58071.6514	UBA	89	63-83	Destroyed		
TMW-13	Boeing C-6 Facility	196244.308	58087.1783	UBA	85	60-80	Destroyed		
TMW-14	Boeing C-6 Facility	196067.918	58084.4061	UBA	90	65-85	Active	Yes	Yes
TMW-15	Boeing C-6 Facility	196074.521	58830.7417	UBA	92	62-87	Active	Yes	Yes
TMW-16	Boeing C-6 Facility	196166.379	59568.1649	UBA	87.5	61.5-81.5	Destroyed		
TMW-17	Boeing C-6 Facility	195805.844	59272.8192	UBA	87	62-82	Destroyed		
TMW-2	Boeing C-6 Facility	196769.395	59827.0675	UBA	92	67-87	Active	Yes	Yes
TMW-3	Boeing C-6 Facility	196183.541	58978.2207	UBA	87	62.5-82.5	Active		
TMW-4	Boeing C-6 Facility	196773.119	58997.9137	UBA	84	58-78	Active	Yes	Yes
TMW-5	Boeing C-6 Facility	196311.812	58598.5889	UBA	89	64-84	Active	Yes	Yes
TMW-6	Boeing C-6 Facility	196823.419	58606.3884	UBA	93	67-87	Active	Yes	Yes



TABLE 3

WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
TMW-7	Boeing C-6 Facility	196838.933	59362.132	UBA	91	65-85	Active	Yes	Yes
TMW-8	Boeing C-6 Facility	196849.7	59474.166	UBA	89.5	61-81	Active	Yes	Yes
TMW-9	Boeing C-6 Facility	196621.241	59400.9976	UBA	85	60-80	Active	Yes	Yes
WCC-10S	Boeing C-6 Facility	195617.66	60670.83	UBA	90.8	60-90	Destroyed		
WCC-11S	Boeing C-6 Facility	197013	60539	UBA	91	60-90	Destroyed		
WCC-12S	Boeing C-6 Facility	197009	59348	UBA	91.5	60-90	Active	Yes	
WCC-1D	Boeing C-6 Facility	197008.49	59830.25	UBA	140	120-140	Destroyed		
WCC-1S	Boeing C-6 Facility	197006.35	59863.64	UBA	91	77-87	Destroyed		
WCC-2S	Boeing C-6 Facility	196507.05	60112.81	UBA	90.5	70-90	Destroyed		
WCC-3D	Boeing C-6 Facility	196840.96	59936.07	UBA	140	120-140	Destroyed		
WCC-3S	Boeing C-6 Facility	196875	59904	UBA	92	69-89	Active	Yes	Yes
WCC-4S	Boeing C-6 Facility	197010	59722	UBA	91.5	70.5-90.5	Active	Yes	
WCC-5S	Boeing C-6 Facility	197241	59654	UBA	91	61-91	Active	Yes	Yes
WCC-6S	Boeing C-6 Facility	196841	59629	UBA	91	60-90	Active	Yes	Yes
WCC-7S	Boeing C-6 Facility	197006	59554	UBA	90.5	60-90	Active	Yes	Yes
WCC-8S	Boeing C-6 Facility	197006.47	59936.88	UBA	90	59.5-89.5	Destroyed		
WCC-9S	Boeing C-6 Facility	197192	59266	UBA	91.5	60-90	Active	Yes	Yes
GW-1B	Cal Compact Landfill	203224.192	56356.8491	unknown	Unknown	Unknown	Active		
GW-1C	Cal Compact Landfill	203177.864	56357.4231	unknown	Unknown	Unknown	Active		
GW-2	Cal Compact Landfill	205112.703	56358.3385	unknown	Unknown	Unknown	Active		
GW-2B	Cal Compact Landfill	205079.99	56360.1805	unknown	Unknown	Unknown	Active		
GW-2C	Cal Compact Landfill	205042.018	56359.4181	unknown	Unknown	Unknown	Active		
GW-3B	Cal Compact Landfill	206766.633	55416.9219	unknown	Unknown	Unknown	Active		
GW-3C	Cal Compact Landfill	206729.83	55414.9723	unknown	Unknown	Unknown	Active		
GW-4	Cal Compact Landfill	207460.212	54539.9422	unknown	Unknown	Unknown	Active		
GW-5A	Cal Compact Landfill	207218.203	53937.583	unknown	Unknown	Unknown	Active		
GW-5B	Cal Compact Landfill	207242.858	53964.9819	unknown	Unknown	Unknown	Active		
GW-5C	Cal Compact Landfill	207211.508	53973.3857	unknown	Unknown	Unknown	Active		
GW-6	Cal Compact Landfill	205718.691	53978.4	unknown	Unknown	Unknown	Active		
GW-7	Cal Compact Landfill	204712.805	54278.5183	unknown	Unknown	Unknown	Active		
GW-7A	Cal Compact Landfill	204660.812	54345.754	unknown	Unknown	Unknown	Active		
GW-7B	Cal Compact Landfill	204746.39	54237.3741	unknown	Unknown	Unknown	Active		
GW-7C	Cal Compact Landfill	204778.085	54195.2625	unknown	Unknown	Unknown	Active		

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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
GW-7R	Cal Compact Landfill	204831.977	53873.9209	unknown	Unknown	Unknown	Active		
GW-8	Cal Compact Landfill	204331.537	54996.8617	unknown	Unknown	Unknown	Active		
MWB-1	Cal Compact Landfill	206027.081	56212.2231	unknown	Unknown	Unknown	Active		
MWB-2	Cal Compact Landfill	206579.887	53669.787	unknown	Unknown	Unknown	Active		
MWB-3	Cal Compact Landfill	205487.318	53683.7888	unknown	Unknown	Unknown	Active		
MWB-4	Cal Compact Landfill	204042.14	53855.2577	unknown	Unknown	Unknown	Active		
MWB-5	Cal Compact Landfill	204150.083	54195.481	unknown	Unknown	Unknown	Active		
MWB-6	Cal Compact Landfill	203983.791	54638.5269	unknown	Unknown	Unknown	Active		
MWG-1	Cal Compact Landfill	203268.567	56356.885	unknown	Unknown	Unknown	Active		
MWG-2	Cal Compact Landfill	206062.285	53931.34	unknown	Unknown	Unknown	Active		
MWG-3	Cal Compact Landfill	204421.193	53615.2988	unknown	Unknown	Unknown	Active		
MWL01	Cal Compact Landfill	204608	56416	Gage	258	240-255	Active		
MWL02	Cal Compact Landfill	206580	53670	Gage	216	220-235	Active		
MWL03	Cal Compact Landfill	205487	53684	Gage	238	198-213	Active		
DA-1B	Del Amo	200434	55845	Gage	Unknown	Unknown	Active		
PZL0001	Del Amo	201332	56548	UBA	60	50-60	Active		
PZL0002	Del Amo	199806	60571	UBA	72.4	62-72	Active		
PZL0003	Del Amo	198023	60775	UBA	72.3	52-72	Active		
PZL0004	Del Amo	199869	57770	UBA	65.4	45-65	Active		
PZL0005	Del Amo	201301	59100	UBA	58.4	38-58	Active		
PZL0006	Del Amo	199252	58290	UBA	69.3	49-69	Active		
PZL0007	Del Amo	201301	57834	UBA	62.3	47-62	Active		
PZL0008	Del Amo	199706	59421	UBA	60.3	45-60	Active		
PZL0009	Del Amo	198809	58703	UBA	69.4	54-69	Active		
PZL0010	Del Amo	199831	58757	UBA	69.8	49.5-69.5	Active		
PZL0011	Del Amo	200949	57567	UBA	55.3	35-55	Active		
PZL0012	Del Amo	200641	57196	UBA	57.5	37.2-57.2	Active		
PZL0013	Del Amo	200652	56764	UBA	61.4	41-61	Active		
PZL0014	Del Amo	198588	59441	UBA	66.4	51-66	Active		
PZL0015	Del Amo	198613	59734	UBA	71	55.5-70.5	Active		
PZL0016	Del Amo	198018	58798	UBA	67.5	47-67	Active		
PZL0017	Del Amo	198955	60347	UBA	69.3	54-69	Active		
PZL0018	Del Amo	199422	56828	UBA	68	48-68	Active		

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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
PZL0019	Del Amo	198708	56705	UBA	67	46.7-66.7	Active		
PZL0020	Del Amo	198868	56574	UBA	68	47-67	Active		
PZL0021	Del Amo	198287	57137	UBA	72.5	52-72	Active		
PZL0022	Del Amo	199568	56534.3362	UBA	62	42-61.7	Active		
PZL0023	Del Amo	199263	56760	UBA	65.2	45-65	Active		
PZL0024	Del Amo	199338	56521	UBA	64.8	44.4-64.4	Active		
PZL0025	Del Amo	198616	56529	UBA	63.8	43.5-63.5	Active		
PZL0026	Del Amo	200965	56878	UBA	54	33-53	Active		
SWL0001	Del Amo	198179	58303	UBA	77.5	52.5-77.5	Active		
SWL0002	Del Amo	198099	58294	UBA	78.8	52-77	Active		
SWL0003	Del Amo	198122	58421	UBA	78	50-77	Active		
SWL0004	Del Amo	198208	58264	UBA	80	53-80	Active		
SWL0005	Del Amo	199909	56422	UBA	62	38.6-61.5	Active		
SWL0006	Del Amo	198960	56017	UBA	60	43.5-59.5	Active		
SWL0007	Del Amo	198032	59774	UBA	72	50.4-71.2	Active		
SWL0008	Del Amo	198858	56459	UBA	62.8	41.4-62	Active		
SWL0009	Del Amo	201895	57040	UBA	59	37.3-58.3	Active		
SWL0010	Del Amo	201895	57048	BS	117	100-116.5	Active		
SWL0011	Del Amo	200092	56855	UBA	109	92-108.6	Active		
SWL0012	Del Amo	198887	59654	UBA	63.3	41.2-62.5	Active		
SWL0013	Del Amo	200105	56856	BS	148	131.8-147.6	Active		
SWL0014	Del Amo	200444	55846	BS	131.2	113.8-130.8	Active		
SWL0015	Del Amo	201068	55863	UBA	54.5	33-54	Active		
SWL0016	Del Amo	199550	57706	UBA	62.8	40.8-62	Active		
SWL0017	Del Amo	199590	58727	UBA	69	47-68.5	Active		
SWL0018	Del Amo	199408	56862	BS	139.5	122-139	Active		
SWL0019	Del Amo	201055	55859	BS	90.1	73.1-89.6	Active		
SWL0020	Del Amo	201040	55853	Gage	197.2	180.6-196.4	Active		
SWL0021	Del Amo	200749	56079	UBA	62.8	46.5-62.1	Active		
SWL0022	Del Amo	200118	56856	Gage	196	179.5-195.3	Active		
SWL0023	Del Amo	201017	56419	BS	103.8	88.5-103.8	Active		
SWL0024	Del Amo	201031	56417	UBA	63	45-61.5	Active		
SWL0025	Del Amo	201895	57058	Gage	222	195-210.8	Active		

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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004		2003 ANALYTICAL DATA
		X	Y					WATER LEVEL DATA		
SWL0026	Del Amo	200260	54982	Gage	176.3	159.8-175.5	Active			
SWL0027	Del Amo	200255	54973	BS	135.5	119.3-135	Active			
SWL0028	Del Amo	200267	54978	UBA	55.5	34-54.8	Active			
SWL0029	Del Amo	197952	58830	UBA	88.7	83-88	Active			
SWL0030	Del Amo	197954	58838	BS	120.5	104-119.8	Active			
SWL0031	Del Amo	197954	58850	Gage	180.5	164.3-180	Active			
SWL0032	Del Amo	198261	58275	BS	89.5	79-89	Active			
SWL0033	Del Amo	198563	56169	BS	140.8	124.3-140	Active			
SWL0034	Del Amo	198562	56183	Gage	176.3	160-175.8	Active			
SWL0035	Del Amo	199570	57696	BS	136.75	121-136	Active			
SWL0036	Del Amo	199553	57684	Gage	194.5	178-194	Active			
SWL0037	Del Amo	199562	57710	BS	99	82-98.5	Active			
SWL0038	Del Amo	198309	59754	UBA	71	49.5-70.5	Active			
SWL0039	Del Amo	198877	59779	UBA	65	43.5-64.5	Active			
SWL0040	Del Amo	199556	56521	BS	137	118.5-135	Active			
SWL0041	Del Amo	199581	56520	BS	93.5	77-92.75	Active			
SWL0042	Del Amo	201223	55467	UBA	56.5	34.3-55	Active			
SWL0043	Del Amo	200416	55840	BS	153.75	142-152	Active			
SWL0044	Del Amo	199263	56760	UBA	65.5	45.5-65	Active			
SWL0045	Del Amo	199382	60293	UBA	56.5	36-56	Active			
SWL0046	Del Amo	200635	57893	UBA	58.2	37.8-57.8	Active			
SWL0047	Del Amo	198870	58029	UBA	93	82-92	Active			
SWL0048	Del Amo	199099	57234	UBA	93.5	83-93	Active			
SWL0049	Del Amo	197520	56202	UBA	63.75	42-62.3	Active			
SWL0050	Del Amo	199003	56528	UBA	83.5	72.5-82	Active			
SWL0051	Del Amo	198993	56214	UBA	56	35-55	Active			
SWL0052	Del Amo	199976	56143	UBA	95	78.3-93.7	Active			
SWL0053	Del Amo	199976	56131	BS	129	118.3-127.8	Active			
SWL0054	Del Amo	198368	57720	BS	131	120.2-129.7	Active			
SWL0055	Del Amo	199016	56529	BS	131.1	120.3-129.8	Active			
SWL0056	Del Amo	199614	55487	BS	85.9	75-85	Active			
SWL0057	Del Amo	199614	55500	UBA	59.8	38.5-58.5	Active			
SWL0058	Del Amo	198525	56928	BS	128.2	118.1-127.7	Active			



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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES X Y	HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bbs)	SCREENED INTERVAL (feet bbs)	WELL STATUS	2003/2004	
							WATER LEVEL DATA	2003 ANALYTICAL DATA
GW-1	Gardena Valley Landfill 1 and 2	201850 55590	Gage	150	95-116	Active		
GW-10A	Gardena Valley Landfill 1 and 2	201808 55836	UBA	54.4	44.6-54.4	Active		
GW-11A	Gardena Valley Landfill 1 and 2	201637 55323	UBA	56.6	46.6-56.4	Active		
GW-12A	Gardena Valley Landfill 1 and 2	203159 55290	UBA	46.5	36.1-46.1	Active		
GW-13A	Gardena Valley Landfill 1 and 2	201691 55628	UBA	55.6	45.6-55.6	Active		
GW-2	Gardena Valley Landfill 1 and 2	202444 55589	Gage	120	95-116	Active		
GW-3	Gardena Valley Landfill 1 and 2	203028 55585	Gage	120	95-116	Active		
GW-4A	Gardena Valley Landfill 1 and 2	202965 55160	UBA	60.2	50.2-59.95	Active		
GW-4B	Gardena Valley Landfill 1 and 2	202980 55149	MBA	74	69-73.5	Active		
GW-4C	Gardena Valley Landfill 1 and 2	202962 55144	LBA	91.7	86.3-90.8	Active		
GW-4D	Gardena Valley Landfill 1 and 2	202979 55165	Gage	115	104.5-114.5	Active		
GW-5	Gardena Valley Landfill 1 and 2	202555 55145	UBA	59	49-59	Active		
GW-6A	Gardena Valley Landfill 1 and 2	201920 55167	UMBA	70	55-70	Active		
GW-6C	Gardena Valley Landfill 1 and 2	201938 55183	LBA	87.6	82.5-87.5	Active		
GW-6D	Gardena Valley Landfill 1 and 2	201929 55149	Gage	119	109.1-118.7	Active		
GW-7A	Gardena Valley Landfill 1 and 2	201784 56307	UBA	57.5	47-57	Active		
GW-7C	Gardena Valley Landfill 1 and 2	201779 56298	LBA	91	86.3-90.9	Active		
GW-8A	Gardena Valley Landfill 1 and 2	203130 55818	UBA	48	37.5-47.5	Active		
GW-9A	Gardena Valley Landfill 1 and 2	202759 54927	UBA	54	44-54	Active		
DAV-59	Golden Eagle	201744 53334	UBA	78	Unknown	Active	Yes	
MW-01A	Golden Eagle	203107 54885	UBA	73	Unknown	Active		
MW-02A	Golden Eagle	203175.904 54030.6048	UBA	75	Unknown	Destroyed		
MW-03	Golden Eagle	203253.44 53075.9129	UBA	85	Unknown	Destroyed		
MW-03A	Golden Eagle	203295 53064	UBA	67	Unknown	Active	Yes	
MW-04	Golden Eagle	202353.988 53052.2281	UBA	85	Unknown	Destroyed		
MW-05	Golden Eagle	201388.361 53032.8786	UBA	85	Unknown	Destroyed		
MW-06	Golden Eagle	201448 54485	UBA	85	Unknown	Active	Yes	
MW-06A	Golden Eagle	201517.727 54807.4106	UBA	70	Unknown	Destroyed		
MW-07	Golden Eagle	202327.626 54885.8486	UBA	80	Unknown	Destroyed		
MW-07A	Golden Eagle	202307.087 54884.7264	UBA	71	Unknown	Destroyed		
MW-08	Golden Eagle	Unknown	Unknown	85	Unknown	Destroyed		
MW-09	Golden Eagle	Unknown	Unknown	90	Unknown	Destroyed		
MW-1	Golden Eagle	203174.033 53948.133	UBA	80	Unknown	Destroyed		



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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004		2003 ANALYTICAL DATA
		X	Y					WATER LEVEL DATA		
MW-10	Golden Eagle	202733.172	54498.5342	UBA	70	Unknown	Destroyed			
MW-11	Golden Eagle	202726.59	54299.6224	UBA	88	Unknown	Destroyed			
MW-12D	Golden Eagle	203278.063	53058.604	Gage	197	Unknown	Destroyed			
MW-13D	Golden Eagle	201758.691	53509.8617	Gage	199	Unknown	Destroyed			
MW-14	Golden Eagle	202960	54871	UBA	56.5	Unknown	Active	Yes		Yes
MW-15	Golden Eagle	202505	54869	UBA	61.5	Unknown	Active			
MW-16D	Golden Eagle	201526.723	54834.5368	Gage	108	Unknown	Destroyed			
MW-17D	Golden Eagle	203277.447	53115.0972	Gage	104	Unknown	Destroyed			
MW-18	Golden Eagle	203176	54422	UBA	62	Unknown	Active	Yes		Yes
MW-19	Golden Eagle	203212	53858	UBA	60	Unknown	Active			
MW-2	Golden Eagle	203175.179	54270.6932	UBA	80	Unknown	Destroyed			
MW-20	Golden Eagle	202847	54039	UBA	65.5	Unknown	Active	Yes		Yes
MW-21	Golden Eagle	202407	54472	UBA	76.5	Unknown	Active	Yes		Yes
MW-22	Golden Eagle	202833.381	53285.8319	UBA	76.5	Unknown	Destroyed			
MW-22A	Golden Eagle	202846	53284	UBA	70	Unknown	Active	Yes		
MW-23	Golden Eagle	202995.291	53165.7338	UBA	71.5	Unknown	Destroyed			
MW-24	Golden Eagle	202038	54876	UBA	71	Unknown	Active	Yes		
MW-25	Golden Eagle	201460	53706	UBA	71.5	Unknown	Active	Yes		
MW-26	Golden Eagle	201661	54264	UBA	70	Unknown	Active	Yes		
MW-27	Golden Eagle	202479	53418	UBA	71.5	Unknown	Active	Yes		
MW-28	Golden Eagle	201825.561	53229.5438	UBA	71.5	Unknown	Destroyed			
MW-29	Golden Eagle	202833.264	53062.4819	UBA	71.5	Unknown	Destroyed			
MW-30	Golden Eagle	201789.468	53420.3219	UBA	71.5	Unknown	Destroyed			
MW-30A	Golden Eagle	201790.024	53473.1167	UBA	71.5	Unknown	Destroyed			
MW-31	Golden Eagle	201747	54653	UBA	71.5	Unknown	Active	Yes		
MW-32	Golden Eagle	203199	53609	UBA	71.5	Unknown	Active	Yes		Yes
MW-33	Golden Eagle	202743.207	53648.2183	UBA	70	Unknown	Destroyed			
MW-33A	Golden Eagle	202752	53652	UBA	70	Unknown	Active	Yes		Yes
MW-34D	Golden Eagle	202498.868	53683.524	Gage	120	Unknown	Destroyed			
MW-35D	Golden Eagle	202935	53924	Gage	120	Unknown	Active			
MW-36D	Golden Eagle	201976.044	54304.1926	Gage	120	Unknown	Destroyed	Yes		
MW-37	Golden Eagle	202589.636	53797.0021	UBA	Unknown	Unknown	Destroyed			
MW-37A	Golden Eagle	Unknown	Unknown	UBA	70	Unknown	Active	Yes		Yes



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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
MW-38	Golden Eagle	Unknown	Unknown	UBA	70.5	Unknown	Active	Yes	Yes
MW-39	Golden Eagle	Unknown	Unknown	UBA	70	Unknown	Active	Yes	Yes
MW-40	Golden Eagle	Unknown	Unknown	UBA	70	Unknown	Active	Yes	Yes
MW-41	Golden Eagle	Unknown	Unknown	UBA	70	Unknown	Active	Yes	Yes
MW-42	Golden Eagle	Unknown	Unknown	UBA	70.5	Unknown	Active	Yes	Yes
MW-43	Golden Eagle	Unknown	Unknown	UBA	69	Unknown	Active	Yes	Yes
MW-44	Golden Eagle	Unknown	Unknown	UBA	70	Unknown	Active	Yes	Yes
MW-45	Golden Eagle	Unknown	Unknown	UBA	70	Unknown	Active	Yes	Yes
MW-4A	Golden Eagle	202386	53055	UBA	73	Unknown	Active	Yes	Yes
BL-10A	International Light Metals	195760.552	58951.7975	UBA	Unknown	Unknown	Active	Yes	Yes
BL-10B	International Light Metals	195760.552	58951.7975	BS	Unknown	Unknown	Active	Yes	Yes
BL-10C	International Light Metals	195760.552	58951.7975	Gage	Unknown	Unknown	Active	Yes	Yes
BL-11A	International Light Metals	195774.696	57841.3077	UBA	Unknown	Unknown	Active	Yes	Yes
BL-11B	International Light Metals	195773.405	57837.7616	BS	Unknown	Unknown	Active	Yes	Yes
BL-11C	International Light Metals	195771.716	57833.5617	Gage	Unknown	Unknown	Active	Yes	Yes
BL-9A	International Light Metals	195800.817	59851.368	UBA	Unknown	Unknown	Active	Yes	Yes
BL-9B	International Light Metals	195794.133	59832.178	BS	Unknown	Unknown	Active	Yes	Yes
P-1	International Light Metals	195331.987	59607.1714	Lower Sand Unit	80.5	60.5-80.5	Active	Yes	Yes
P-10	International Light Metals	194282	58448	Lower Sand Unit	76	61-76	Active	Yes	Yes
P-11	International Light Metals	194323.472	60065.5477	Lower Sand Unit	74	59-74	Destroyed	Yes	Yes
P-12	International Light Metals	194547.004	60793.0788	Lower Sand Unit	80	65-80	Destroyed	Yes	Yes
P-13	International Light Metals	194880.087	60634.9606	Lower Sand Unit	82	62-82	Destroyed	Yes	Yes
P-14	International Light Metals	195162.314	60112.226	Lower Sand Unit	85	65-85	Destroyed	Yes	Yes
P-15	International Light Metals	195238.939	59653.0648	Lower Sand Unit	79.5	59.5-79.5	Destroyed	Yes	Yes
P-16A	International Light Metals	194822.57	58926.4293	Lower Sand Unit	87	67-87	Active	Yes	Yes
P-16B	International Light Metals	194822.57	58926.4293	Lower Sand Unit	116.5	101.5-116.5	Destroyed	Yes	Yes
P-16C	International Light Metals	194906.46	58831.9411	Lower Sand Unit	118	103-118	Active	Yes	Yes
P-17	International Light Metals	194940.274	59136.123	Lower Sand Unit	85	65-85	Active	Yes	Yes
P-18	International Light Metals	194518.588	58851.4002	Lower Sand Unit	85	65-85	Destroyed	Yes	Yes
P-19	International Light Metals	194749.599	58561.4424	Lower Sand Unit	85	65-85	Destroyed	Yes	Yes
P-2	International Light Metals	194272	60192	Lower Sand Unit	71	61-71	Active	Yes	Yes
P-20	International Light Metals	195331.019	59419.4243	Lower Sand Unit	78	58-78	Active	Yes	Yes
P-21	International Light Metals	195144.193	58552.8184	Lower Sand Unit	85	65-85	Destroyed	Yes	Yes



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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
P-22	International Light Metals	194800.604	58329.1707	Lower Sand Unit	87	67-87	Active	Yes	Yes
P-23	International Light Metals	194530.115	59848.8561	Lower Sand Unit	75	65-75	Destroyed		
P-24	International Light Metals	194697.907	60408.3515	Lower Sand Unit	75	65-75	Active	Yes	Yes
P-25	International Light Metals	194962.18	59368.2043	Lower Sand Unit	79.5	64.5-79.5	Destroyed		
P-3	International Light Metals	194261.645	60799.2368	Lower Sand Unit	72	57-72	Active	Yes	Yes
P-4	International Light Metals	194836.108	59750.3219	Lower Sand Unit	78	63-78	Destroyed		
P-5	International Light Metals	195307	60351	Lower Sand Unit	79	59-79	Active	Yes	Yes
P-6	International Light Metals	195337.209	59091.9827	Lower Sand Unit	78	58-78	Destroyed		
P-6B	International Light Metals	195337.209	59091.9827	Lower Sand Unit	80	60-80	Active	Yes	Yes
P-7	International Light Metals	195331	58367	Lower Sand Unit	82.5	62.5-82.5	Active	Yes	Yes
P-8	International Light Metals	194799.688	58901.7285	Lower Sand Unit	90	65-90	Destroyed		
P-9	International Light Metals	194271.593	59400.6869	Lower Sand Unit	83	63-83	Destroyed		
P-9B	International Light Metals	194274.05	59429.65	Lower Sand Unit	77	57-77	Active	Yes	Yes
A-01	Mobil Oil Corp Torrance Refinery	188718.86	60038.06	Perched	54	24-54	Destroyed		
A-02	Mobil Oil Corp Torrance Refinery	188658.71	59339.2	Perched	43	13-43	Active		
A-03	Mobil Oil Corp Torrance Refinery	188093.53	59830.2	Perched	43	13-43	Active		
A-04	Mobil Oil Corp Torrance Refinery	188689.02	58838.38	Perched	55	15-55	Active		
A-05	Mobil Oil Corp Torrance Refinery	189318.62	59189.23	Perched	40	10-40	Active		
A-07	Mobil Oil Corp Torrance Refinery	188174.17	59578.3	Perched	37	7-37	Active		
A-08	Mobil Oil Corp Torrance Refinery	188823.69	60386.11	Perched	50	20-50	Active		
A-09	Mobil Oil Corp Torrance Refinery	189610.48	60720.84	Perched	49	19.5-49	Active		
A-10	Mobil Oil Corp Torrance Refinery	188088.16	60737.68	Perched	33	13-33	Active		
A-10A	Mobil Oil Corp Torrance Refinery	188107.59	60738.75	Perched	34	12-32	Destroyed		
A-11	Mobil Oil Corp Torrance Refinery	187882.78	59472.54	Perched	39	9.5-39	Active		
A-12	Mobil Oil Corp Torrance Refinery	189765.08	59908.55	Perched	44	14-44	Destroyed		
A-13	Mobil Oil Corp Torrance Refinery	188434.03	59964.74	Perched	34.5	15-34	Active		
A-14	Mobil Oil Corp Torrance Refinery	188539.67	59575.18	Perched	39	10-39	Active		
A-16	Mobil Oil Corp Torrance Refinery	188306.67	60344.14	Perched	42.5	13-42	Destroyed		
A-17	Mobil Oil Corp Torrance Refinery	189235.58	60691.06	Perched	46.5	17-46	Destroyed		
A-18R	Mobil Oil Corp Torrance Refinery	189775.61	60161.37	Gage	94	74-94	Active		
A-19	Mobil Oil Corp Torrance Refinery	190121.5	59993.74	Perched	49	29-40	Active		
A-20R	Mobil Oil Corp Torrance Refinery	190435.78	59992.16	Gage	95	75-95	Active		
A-21	Mobil Oil Corp Torrance Refinery	190234.42	60332.43	Perched	50	30-50	Active		



TABLE 3

WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
A-22R	Mobil Oil Corp Torrance Refinery	189992.63	60446.38	Gage	95	75-95	Active		
ATT-01	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	Gage	100.9	Unknown	Destroyed		
ATT-02	Mobil Oil Corp Torrance Refinery	193027.3	54290.43	Gage	100	Unknown	Active		
ATT-03	Mobil Oil Corp Torrance Refinery	193511.85	53822.58	Gage	80	Unknown	Active		
ATT-04	Mobil Oil Corp Torrance Refinery	193367.08	54310.8	Gage	100.5	Unknown	Active		
B-01	Mobil Oil Corp Torrance Refinery	187134.41	58584.06	Perched	49	9-49	Active		
B-02	Mobil Oil Corp Torrance Refinery	187303.18	59229.68	Perched	45	15-45	Destroyed		
B-03	Mobil Oil Corp Torrance Refinery	186963.97	58746.09	Perched	44	14-44	Active		
B-04	Mobil Oil Corp Torrance Refinery	187222.92	58154.55	Perched	40	10-40	Active		
B-05	Mobil Oil Corp Torrance Refinery	187874.37	58799.04	Perched	45	15-45	Destroyed		
B-06	Mobil Oil Corp Torrance Refinery	187773.53	57518.34	Perched	48	19-48	Active		
B-07	Mobil Oil Corp Torrance Refinery	186910.57	58047.22	Perched	49	17-49	Active		
B-08	Mobil Oil Corp Torrance Refinery	185439.29	59845.5	Perched	45	25-45	Active		
B-09	Mobil Oil Corp Torrance Refinery	185858.2	59793.76	Perched	45	25-45	Active		
B-10	Mobil Oil Corp Torrance Refinery	185722.66	59565.02	Perched	40	20-40	Active		
C-01	Mobil Oil Corp Torrance Refinery	184856.82	58926.74	Perched	55	25-55	Active		
C-02	Mobil Oil Corp Torrance Refinery	184845.35	58117.6	Perched	52	22-52	Active		
C-04	Mobil Oil Corp Torrance Refinery	185711.17	58220.28	Perched	46	26-46	Active		
C-05	Mobil Oil Corp Torrance Refinery	185726.32	58851.64	Perched	47	27-47	Active		
C-06	Mobil Oil Corp Torrance Refinery	185145.36	59397.61	Perched	50	20-50	Active		
C-07	Mobil Oil Corp Torrance Refinery	185477.67	57920.22	Perched	49	19.5-49	Active		
C-08	Mobil Oil Corp Torrance Refinery	184624.91	57814.46	Perched	54	25-54	Active		
C-09	Mobil Oil Corp Torrance Refinery	184273.01	58845.58	Perched	49	29-49	Active		
C-10	Mobil Oil Corp Torrance Refinery	184532.8	57431.9	Perched	69.5	49.5-69.5	Active		
C-10A	Mobil Oil Corp Torrance Refinery	184526.53	57428.31	Perched	69	50-69	Active		
C-11	Mobil Oil Corp Torrance Refinery	186243.52	57613.94	Perched	49	19.5-49	Active		
C-12	Mobil Oil Corp Torrance Refinery	183577.57	58952.5	Perched	59	29.5-59	Active		
C-12A	Mobil Oil Corp Torrance Refinery	183577.78	58966.98	Perched	65	45-65	Active		
C-13R	Mobil Oil Corp Torrance Refinery	184317.28	57071.3	Gage	129	99.5-129	Active		
C-14	Mobil Oil Corp Torrance Refinery	182863.55	59430.06	Perched	64	34.5-64	Active		
C-15	Mobil Oil Corp Torrance Refinery	183421.86	58910.4	Perched	56.5	27-56	Active		
C-16	Mobil Oil Corp Torrance Refinery	183885.18	58746.8	Perched	46.7	17-46	Destroyed		
C-17	Mobil Oil Corp Torrance Refinery	183890.44	59333.26	Perched	46.5	17-46	Active		



TABLE 3

WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
C-18	Mobil Oil Corp Torrance Refinery	183627.61	58353.89	Perched	80	41-80	Active		
C-19	Mobil Oil Corp Torrance Refinery	183955.98	57383.69	Perched	77	47-77	Active		
C-20	Mobil Oil Corp Torrance Refinery	184428.96	57748.88	Perched	51	31-51	Active		
C-21	Mobil Oil Corp Torrance Refinery	185060.13	57456.72	Perched	53	14-52.5	Active		
C-22	Mobil Oil Corp Torrance Refinery	185622.62	56874.01	Perched	44.5	14-44	Active		
C-23	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	Perched	Unknown	Unknown	Destroyed		
C-23R	Mobil Oil Corp Torrance Refinery	184826.57	56990.5	Gage	118	88-118	Active		
C-24	Mobil Oil Corp Torrance Refinery	183660.75	58682.71	Perched	54	24-54	Active		
C-25	Mobil Oil Corp Torrance Refinery	183221.04	59090.63	Perched	54	34-54	Active		
C-28	Mobil Oil Corp Torrance Refinery	184014.98	57245.06	Perched	81	51-81	Active		
C-29	Mobil Oil Corp Torrance Refinery	185006.14	57081.09	Perched	65	35-65	Active		
C-30	Mobil Oil Corp Torrance Refinery	184679.35	57194.32	Perched	60	30-60	Active		
C-31	Mobil Oil Corp Torrance Refinery	183564.83	57732.05	Perched	66.7	35-65	Destroyed		
C-32	Mobil Oil Corp Torrance Refinery	184484.76	58117.6	Perched	46.5	16.5-46.5	Active		
C-34	Mobil Oil Corp Torrance Refinery	184283.31	59223.32	Perched	50.5	20-50	Active		
C-35	Mobil Oil Corp Torrance Refinery	184422.07	57306.62	Perched	65	35-65	Active		
C-36	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	Perched	Unknown	Unknown	Destroyed		
CTW-01	Mobil Oil Corp Torrance Refinery	188279.08	59449.18	Perched	Unknown	Unknown	Active		
CTW-02	Mobil Oil Corp Torrance Refinery	188398.89	59447.26	Perched	Unknown	Unknown	Active		
D-02	Mobil Oil Corp Torrance Refinery	183989.14	57118.8	Perched	71	61-71	Active		
D-03	Mobil Oil Corp Torrance Refinery	183727.3	57191.21	Perched	72	62-72	Active		
D-32	Mobil Oil Corp Torrance Refinery	184276.23	55741.5	LS	663	491-540	Active		
D-33	Mobil Oil Corp Torrance Refinery	185062.2	55725.39	LS	600	462-556	Active		
ESB-04	Mobil Oil Corp Torrance Refinery	190403.16	57979.12	Gage	65	45-65	Active		
ESB-05D	Mobil Oil Corp Torrance Refinery	190454.81	58123.48	Gage	65	40-65	Active		
ESB-05S	Mobil Oil Corp Torrance Refinery	190454.81	58123.48	Perched	32	7-32	Active		
ESB-06	Mobil Oil Corp Torrance Refinery	190517.07	57984.95	Perched	22	7-22	Active		
ESB-06S	Mobil Oil Corp Torrance Refinery	190517.07	57984.95	Perched	22	7-22	Active		
ESB-09D	Mobil Oil Corp Torrance Refinery	190730.2	57997.3	Gage	73	48-73	Active		
ESB-09S	Mobil Oil Corp Torrance Refinery	190730.2	57997.3	Perched	38	13-38	Active		
ESB-10D	Mobil Oil Corp Torrance Refinery	191046.51	57990.47	Gage	70	45-70	Active		
ESB-10S	Mobil Oil Corp Torrance Refinery	191046.51	57990.47	Perched	40	15-40	Active		
ESB-11D	Mobil Oil Corp Torrance Refinery	191078.24	58099.71	Gage	70	45-70	Active		

TABLE 3
WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
ESB-11S	Mobil Oil Corp Torrance Refinery	191079.12	58109.18	Perched	40	25-40	Active		
ESB-12D	Mobil Oil Corp Torrance Refinery	191189.77	57999.99	Gage	70	45-70	Active		
ESB-12S	Mobil Oil Corp Torrance Refinery	191189.77	57999.99	Perched	40	15-40	Active		
ESB-13D	Mobil Oil Corp Torrance Refinery	184537.32	59305.07	Gage	70	40-70	Active		
ESB-13S	Mobil Oil Corp Torrance Refinery	184536.94	59305.07	Perched	30	10-30	Active		
ESB-14	Mobil Oil Corp Torrance Refinery	184535.35	59343.72	Perched	30	10-30	Active		
ESB-14S	Mobil Oil Corp Torrance Refinery	184535.35	59343.72	Perched	30	10-30	Active		
ESB-15	Mobil Oil Corp Torrance Refinery	184535.54	59369.09	Perched	35	10-35	Active		
ESB-15S	Mobil Oil Corp Torrance Refinery	184535.54	59369.09	Perched	35	10-35	Active		
ESB-16	Mobil Oil Corp Torrance Refinery	184536.94	59252.61	Perched	35	10-35	Active		
ESB-16S	Mobil Oil Corp Torrance Refinery	184536.94	59252.61	Perched	35	10-35	Active		
ESB-17	Mobil Oil Corp Torrance Refinery	184504.3	59314.35	Perched	30	10-30	Active		
ESB-17S	Mobil Oil Corp Torrance Refinery	184504.3	59314.35	Perched	30	10-30	Active		
ESB-18	Mobil Oil Corp Torrance Refinery	184584.16	59301.88	Perched	30	10-30	Active		
ESB-18S	Mobil Oil Corp Torrance Refinery	184584.16	59301.88	Perched	30	10-30	Active		
EW-01	Mobil Oil Corp Torrance Refinery	189863.21	56896.72	Gage	177	167-172	Active		
EW-02	Mobil Oil Corp Torrance Refinery	191021.34	56970.27	Gage	170	160-165	Active		
EW-03	Mobil Oil Corp Torrance Refinery	191389.1	56959.25	Gage	160	150-155	Active		
EW-04	Mobil Oil Corp Torrance Refinery	191564.71	57497.48	Gage	155	145-150	Active		
EW-05	Mobil Oil Corp Torrance Refinery	191559.42	58318.83	Gage	160	150-155	Active		
EW-06	Mobil Oil Corp Torrance Refinery	192692.44	55617.33	Gage	159	149-154	Active		
EW-07	Mobil Oil Corp Torrance Refinery	192397.23	54112.21	Gage	165	150-160	Active		
F-01	Mobil Oil Corp Torrance Refinery	183742.29	57863.48	Perched	57.9	Unknown	Active		
F-02	Mobil Oil Corp Torrance Refinery	183695.21	58193.28	Perched	Unknown	Unknown	Active		
I-01	Mobil Oil Corp Torrance Refinery	183896.54	60719.3	Perched	47	27-47	Active		
I-01R	Mobil Oil Corp Torrance Refinery	183900.24	60719.7	Gage	116.5	86.5-116.5	Active		
I-02	Mobil Oil Corp Torrance Refinery	188888.88	60704.72	Perched	48	28-48	Active		
I-02R	Mobil Oil Corp Torrance Refinery	188882.12	60706.44	Gage	125	75-115	Active		
I-03	Mobil Oil Corp Torrance Refinery	189529.27	60579.14	Perched	47	27-47	Destroyed		
I-03R	Mobil Oil Corp Torrance Refinery	191531.44	60589.65	Gage	105	75-105	Active		
I-04	Mobil Oil Corp Torrance Refinery	190956.29	56822.43	Perched	38	18-38	Active		
I-04	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	LS	Unknown	Unknown	Destroyed		
I-04R	Mobil Oil Corp Torrance Refinery	190966.57	56823.6	Gage	110	60-100	Active		



TABLE 3

WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	
		X	Y					WATER LEVEL DATA	2003 ANALYTICAL DATA
I-05	Mobil Oil Corp Torrance Refinery	188424.44	58966.87	Perched	38	7-37	Active		
I-06	Mobil Oil Corp Torrance Refinery	185179.85	58434.06	Perched	47.5	27.5-47.5	Active		
I-06R	Mobil Oil Corp Torrance Refinery	185155.4	58504.26	Gage	128.5	80-128.5	Active		
I-07	Mobil Oil Corp Torrance Refinery	186775.5	56864.93	Perched	47	17-47	Active		
I-07R	Mobil Oil Corp Torrance Refinery	186775.57	56877.83	Gage	140	70-140	Active		
I-08	Mobil Oil Corp Torrance Refinery	183626.62	57344.25	Perched	80	60-80	Active		
I-08R	Mobil Oil Corp Torrance Refinery	183635.17	57340.95	Gage	145	95-145	Active		
I-09R	Mobil Oil Corp Torrance Refinery	188243.44	57040.95	Gage	130	60-130	Active		
II-01	Mobil Oil Corp Torrance Refinery	183871.72	58515.37	Perched	73	53-73	Destroyed		
II-02	Mobil Oil Corp Torrance Refinery	186153.16	60742.04	Perched	48	28-48	Active		
II-03R	Mobil Oil Corp Torrance Refinery	191385.89	58351.62	Gage	110	60-90	Active		
II-04R	Mobil Oil Corp Torrance Refinery	190028.18	57825.36	Gage	100	70-100	Active		
II-04RA	Mobil Oil Corp Torrance Refinery	190038.65	57572.46	Gage	130	60-130	Active		
II-04RB	Mobil Oil Corp Torrance Refinery	190342.96	57803.95	Gage	130	60-130	Active		
II-04RC	Mobil Oil Corp Torrance Refinery	189912.62	57956.24	Gage	130	70-130	Active		
II-05	Mobil Oil Corp Torrance Refinery	187936.13	58549.52	Perched	61.5	10-04	Destroyed		
II-06	Mobil Oil Corp Torrance Refinery	185358.94	57148.02	Perched	60	33-63	Active		
II-06R	Mobil Oil Corp Torrance Refinery	185349.73	57156.22	Gage	135	75-135	Active		
II-07	Mobil Oil Corp Torrance Refinery	187376.96	58746.42	Perched	47.5	17.5-47.5	Active		
II-07R	Mobil Oil Corp Torrance Refinery	191566.56	57983.28	Gage	135	75-135	Active		
III-01	Mobil Oil Corp Torrance Refinery	186290.68	59033.67	Perched	56	26-56	Destroyed		
III-01A	Mobil Oil Corp Torrance Refinery	186177.22	59835.33	Perched	30	10-30	Active		
III-01R	Mobil Oil Corp Torrance Refinery	186314.2	59040.19	Gage	100	60-90	Destroyed		
III-01RA	Mobil Oil Corp Torrance Refinery	186177.19	59841.58	Gage	130	70-130	Active		
III-02	Mobil Oil Corp Torrance Refinery	188129.61	59079.39	Perched	45	15-35	Active		
III-03	Mobil Oil Corp Torrance Refinery	189261.58	56923.5	Perched	66	26-66	Active		
III-04R	Mobil Oil Corp Torrance Refinery	191445.49	58775.31	Gage	90	70-90	Active		
III-05	Mobil Oil Corp Torrance Refinery	190153.55	60718.72	Perched	43	23-43	Active		
III-06R	Mobil Oil Corp Torrance Refinery	189763.44	58519.85	Gage	110	60-110	Active		
III-07	Mobil Oil Corp Torrance Refinery	191571.06	57598.17	Perched	61	41-61	Active		
III-07R	Mobil Oil Corp Torrance Refinery	191561.16	57598.59	Gage	110	70-110	Active		
III-08	Mobil Oil Corp Torrance Refinery	191577.7	56948.68	Perched	68	48-68	Active		
III-08R	Mobil Oil Corp Torrance Refinery	191566.57	56948.12	Gage	115	75-115	Active		



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WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
III-09R	Mobil Oil Corp Torrance Refinery	190214.51	56865.41	Gage	113	73-113	Active		
III-10R	Mobil Oil Corp Torrance Refinery	189425.3	56820.69	Gage	130	90-130	Active		
III-11R	Mobil Oil Corp Torrance Refinery	189717.58	57206.61	Gage	114.5	75-114	Active		
III-12R	Mobil Oil Corp Torrance Refinery	190575.1	57326.63	Gage	120	70-120	Active		
III-13R	Mobil Oil Corp Torrance Refinery	189273.6	57913.58	Gage	133	65-133	Active		
III-14R	Mobil Oil Corp Torrance Refinery	189934.21	56866.21	Gage	118.6	58.6-118.6	Active		
III-15R	Mobil Oil Corp Torrance Refinery	190649.2	56864.2	Gage	120	60-120	Active		
III-16R	Mobil Oil Corp Torrance Refinery	190266.54	57348.8	Gage	120	71.75-120	Active		
III-17	Mobil Oil Corp Torrance Refinery	191301.84	57340.7	Perched	68	40-68	Active		
III-18	Mobil Oil Corp Torrance Refinery	185742.98	59747.34	Perched	38	38-20	Active		
III-19	Mobil Oil Corp Torrance Refinery	191022.48	57572.44	Perched	71.5	41-71	Destroyed		
III-19R	Mobil Oil Corp Torrance Refinery	191050.23	57569.12	Gage	115	75-115	Active		
III-20R	Mobil Oil Corp Torrance Refinery	190919.63	57960.47	Gage	100	95-100	Active		
III-21	Mobil Oil Corp Torrance Refinery	191386.74	58182.05	Perched	28	7.5-28	Active		
III-21R	Mobil Oil Corp Torrance Refinery	191386.47	58191.91	Gage	105	100-105	Active		
III-22R	Mobil Oil Corp Torrance Refinery	190358.41	56864.68	Gage	115	110-115	Active		
III-23R	Mobil Oil Corp Torrance Refinery	190495.44	56866.57	Gage	115	110-115	Active		
III-24	Mobil Oil Corp Torrance Refinery	190216.97	59303.68	Perched	41.5	21-41	Destroyed		
III-24R	Mobil Oil Corp Torrance Refinery	190222.97	59303.68	Gage	95	65-95	Destroyed		
III-25R	Mobil Oil Corp Torrance Refinery	190678.24	58552.18	Gage	93.5	63-93	Active		
III-26R	Mobil Oil Corp Torrance Refinery	191568.6	57967.51	Gage	80	50-80	Active		
IV-01R	Mobil Oil Corp Torrance Refinery	190027.71	56616.05	Gage	118	60-118	Active		
IV-02R	Mobil Oil Corp Torrance Refinery	190291.89	56616.33	Gage	131	62-131	Active		
IV-03R	Mobil Oil Corp Torrance Refinery	190693.2	56615.68	Gage	119	60-119	Active		
IX-01R	Mobil Oil Corp Torrance Refinery	192018.45	56681.66	Gage	163	148-158	Active		
IX-02R	Mobil Oil Corp Torrance Refinery	192041.61	56682.95	Gage	193	178-188	Active		
IX-03R	Mobil Oil Corp Torrance Refinery	192477.6	55616.92	Gage	146	127-137	Active		
IX-04R	Mobil Oil Corp Torrance Refinery	192461.95	55616.18	Gage	182	160-170	Active		
IX-05R	Mobil Oil Corp Torrance Refinery	191670.5	54270.4	Gage	170	145-155	Active		
IX-06R	Mobil Oil Corp Torrance Refinery	191691.5	54271.37	Gage	205	185-195	Active		
L-01	Mobil Oil Corp Torrance Refinery	192473.49	55634.18	LS	338.5	15	Active		
L-02	Mobil Oil Corp Torrance Refinery	192033.34	56632.83	LS	295	15	Active		
M-01	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	LS	Unknown	Unknown	Unknown		

TABLE 3
WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
M-02	Mobil Oil Corp Torrance Refinery	185610.35	58196.22	LS	Unknown	Unknown	Active		
M-03	Mobil Oil Corp Torrance Refinery	185293.22	58195.88	LS	350	Unknown	Active		
M-04	Mobil Oil Corp Torrance Refinery	185451.03	58195.77	LS	454	Unknown	Active		
M-05	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	LS	Unknown	Unknown	Destroyed		
M-06	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	LS	500	Unknown	Unknown		
M-07	Mobil Oil Corp Torrance Refinery	185763.54	59239.97	LS	820	280-820	Active		
M-08	Mobil Oil Corp Torrance Refinery	186261.01	59119.92	LS	840	280-820	Active		
M-09	Mobil Oil Corp Torrance Refinery	190017.99	58314.75	LS	560	290-550	Active		
M-10	Mobil Oil Corp Torrance Refinery	191491.47	59528.02	LS	640	545-640	Active		
MW-01	Mobil Oil Corp Torrance Refinery	192036.05	53393.81	Gage	102.3	80-102	Active		
MW-02	Mobil Oil Corp Torrance Refinery	192517.5	53670.01	Gage	106	80-105	Active		
MW-03	Mobil Oil Corp Torrance Refinery	193116.84	53526.49	Gage	104	80-104	Active		
MW-04	Mobil Oil Corp Torrance Refinery	192650.54	53088.8	Gage	105.6	80-105	Active		
MW-05	Mobil Oil Corp Torrance Refinery	192427.08	54027.16	Gage	103	80-100	Active		
MW-06	Mobil Oil Corp Torrance Refinery	191547.05	53994.61	Gage	103.3	80-100	Active		
MW-07	Mobil Oil Corp Torrance Refinery	192425.27	54139.16	Gage	100	70-100	Active		
MW-08	Mobil Oil Corp Torrance Refinery	192564.09	54639.92	Gage	100	70-100	Active		
MW-09	Mobil Oil Corp Torrance Refinery	193252.25	53528.81	Gage	105	75-105	Active		
MW-10	Mobil Oil Corp Torrance Refinery	191945.25	53517.96	Gage	105	75-105	Active		
MW-11	Mobil Oil Corp Torrance Refinery	192159.09	53420.61	Gage	105	75-105	Active		
MW-12	Mobil Oil Corp Torrance Refinery	192318.12	54042.34	Gage	100	70-100	Active		
MW-13	Mobil Oil Corp Torrance Refinery	191747.71	53793.29	Gage	105	75-105	Active		
MW-14	Mobil Oil Corp Torrance Refinery	193071.99	53362.11	Gage	90	60-90	Active		
MW-15	Mobil Oil Corp Torrance Refinery	192918.03	53045.68	Gage	95	65-95	Active		
MW-16	Mobil Oil Corp Torrance Refinery	192655.25	52912.8	Gage	100	70-100	Active		
MW-16S	Mobil Oil Corp Torrance Refinery	188576.83	60606.01	Perched	39	33-39	Destroyed		
MW-17S	Mobil Oil Corp Torrance Refinery	188536.93	60537.19	Perched	39	33-39	Destroyed		
OW-01	Mobil Oil Corp Torrance Refinery	190849.32	56868.17	Gage	149	70-149	Active		
PRW-01	Mobil Oil Corp Torrance Refinery	188714.86	60062.25	Perched	54	24-54	Destroyed		
PRW-02	Mobil Oil Corp Torrance Refinery	184293.87	58839.28	Perched	50	20-50	Active		
PRW-03	Mobil Oil Corp Torrance Refinery	184990.26	57531.23	Perched	40	18-48	Active		
PW-01	Mobil Oil Corp Torrance Refinery	190898.67	56876.87	Gage	150	70-150	Active		
PZ-01	Mobil Oil Corp Torrance Refinery	189718.41	56894.37	Gage	185	155-185	Active		

TABLE 3
WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
PZ-07	Mobil Oil Corp Torrance Refinery	191565.73	57976.19	Gage	175	145-175	Destroyed		
PZ-200	Mobil Oil Corp Torrance Refinery	190967.19	56879.4	Gage	200	180-200	Active		
PZ-300	Mobil Oil Corp Torrance Refinery	190968.16	56872.95	LS	309	289-309	Active		
PZ-400	Mobil Oil Corp Torrance Refinery	190013.45	58060.58	Gage	235	205-230	Active		
PZ-500	Mobil Oil Corp Torrance Refinery	190013.76	58082.91	LS	325	280-320	Active		
R-15	Mobil Oil Corp Torrance Refinery	191310.15	59618.86	Gage	90	67-87	Active		
RW-01	Mobil Oil Corp Torrance Refinery	190079.65	57825.01	Gage	160	140-150	Active		
RW-02	Mobil Oil Corp Torrance Refinery	190221.6	56948.7	Gage	160	140-150	Active		
RW-03	Mobil Oil Corp Torrance Refinery	190566.67	56967.08	Gage	160	140-150	Active		
T-05	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	LS	316	Unknown	Unknown		
TFL-01	Mobil Oil Corp Torrance Refinery	191630.31	58876.1	Gage	130	60-130	Active		
TFL-02	Mobil Oil Corp Torrance Refinery	191450.43	58634.35	Gage	130	60-130	Destroyed		
TFL-03	Mobil Oil Corp Torrance Refinery	191532.39	58491.34	Gage	130	60-130	Active		
URS-01	Mobil Oil Corp Torrance Refinery	191749.92	58119.7	Gage	94	63.6-93.6	Active		
URS-02	Mobil Oil Corp Torrance Refinery	192024.6	57490.6	Gage	95.4	65.0-95.0	Active		
URS-03	Mobil Oil Corp Torrance Refinery	192749.87	58534.18	Gage	95.4	65.0-95.0	Active		
URS-04	Mobil Oil Corp Torrance Refinery	193002.7	57867.51	Gage	95.4	65.0-95.0	Active		
URS-05	Mobil Oil Corp Torrance Refinery	192892.6	56965.07	Gage	95.4	65.0-95.0	Active		
V-01R	Mobil Oil Corp Torrance Refinery	192031.78	58111.17	Gage	95.4	65.0-95.0	Active		
V-02R	Mobil Oil Corp Torrance Refinery	192097.76	57431.06	Gage	120	60-120	Destroyed		
V-03	Mobil Oil Corp Torrance Refinery	192095.42	56668.28	Perched	120	60-120	Destroyed		
V-03R	Mobil Oil Corp Torrance Refinery	192096.57	56672.37	Gage	53	Unknown	Destroyed		
V-04R	Mobil Oil Corp Torrance Refinery	191338.97	56354.66	Gage	120	60-120	Destroyed		
V-05R	Mobil Oil Corp Torrance Refinery	191801.29	55573.85	Gage	130	60-130	Active		
V-06R	Mobil Oil Corp Torrance Refinery	192037.67	55572.68	Gage	130	70-130	Active		
V-07R	Mobil Oil Corp Torrance Refinery	189850.81	56054.39	Gage	130	70-130	Active		
V-08R	Mobil Oil Corp Torrance Refinery	189164.09	56049.93	Gage	130	70-130	Active		
V-09R	Mobil Oil Corp Torrance Refinery	191946.95	57426.33	Gage	130	70-130	Active		
VI-01R	Mobil Oil Corp Torrance Refinery	192869.79	57086.81	Gage	94	34-94	Destroyed		
VI-02R	Mobil Oil Corp Torrance Refinery	192689.34	56312.51	Gage	100.5	50-100.5	Destroyed		
VI-03R	Mobil Oil Corp Torrance Refinery	191432.86	55720.64	Gage	110	60-110	Active		
VI-04R	Mobil Oil Corp Torrance Refinery	192880.92	55474.44	Gage	124.5	84.5-124.5	Active		
VI-05R	Mobil Oil Corp Torrance Refinery	191229.04	54483.7	Gage	110	50-110	Active		
					120	70-120	Active		

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WELL INFORMATION

WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
VI-06R	Mobil Oil Corp Torrance Refinery	193593.23	54910.77	Gage	110	60-110	Active		
VII-01R	Mobil Oil Corp Torrance Refinery	192390.62	56324.04	Gage	110	60-110	Active		
VII-02R	Mobil Oil Corp Torrance Refinery	191794.14	56332.06	Gage	100	60-100	Active		
VII-03R	Mobil Oil Corp Torrance Refinery	191568.72	55012.56	Gage	110	70-110	Active		
VII-04R	Mobil Oil Corp Torrance Refinery	192193.74	55029.53	Gage	110	70-110	Active		
VII-05R	Mobil Oil Corp Torrance Refinery	192694.12	55263.7	Gage	120	80-120	Active		
VII-06R	Mobil Oil Corp Torrance Refinery	191710.5	54270.34	Gage	115	75-115	Active		
VII-07R	Mobil Oil Corp Torrance Refinery	192305.64	54285.35	Gage	115	75-115	Active		
VII-08R	Mobil Oil Corp Torrance Refinery	191004.38	55303.61	Gage	115	75-115	Active		
VII-09R	Mobil Oil Corp Torrance Refinery	193648.55	55863.78	Gage	100	60-100	Active		
VIII-01R	Mobil Oil Corp Torrance Refinery	192705.78	55876.89	Gage	110	65-100	Active		
VIII-02R	Mobil Oil Corp Torrance Refinery	192478.43	55570.69	Gage	110	65-100	Active		
VV-01	Mobil Oil Corp Torrance Refinery	188734.78	60717.66	Perched	22	8-18	Active		
VV-02	Mobil Oil Corp Torrance Refinery	189033.97	60719	Perched	20	8-18	Active		
VV-03	Mobil Oil Corp Torrance Refinery	190099.2	56863.23	Perched	22	8-18	Active		
VV-04	Mobil Oil Corp Torrance Refinery	190629.46	56865.78	Perched	20	8-18	Active		
VV-05	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	Perched	20	10-20	Destroyed		
VV-06	Mobil Oil Corp Torrance Refinery	184074.93	57216.14	Perched	21.5	10-20	Active		
VV-07	Mobil Oil Corp Torrance Refinery	183955.18	57262.62	Perched	21.5	10-20	Active		
W-118	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	Gage	Unknown	Unknown	Destroyed		
W-120	Mobil Oil Corp Torrance Refinery	Unknown	Unknown	Gage	Unknown	Unknown	Destroyed		
X-01R	Mobil Oil Corp Torrance Refinery	190654.18	54097.13	Gage	105	75-105	Active		
X-02R	Mobil Oil Corp Torrance Refinery	191489.64	53184.22	Gage	113	83-113	Active		
X-03R	Mobil Oil Corp Torrance Refinery	192041.69	52686.28	Gage	113	83-113	Active		
X-04R	Mobil Oil Corp Torrance Refinery	193049.54	52805.17	Gage	95	65-95	Active		
X-05R	Mobil Oil Corp Torrance Refinery	193019.43	52804.88	Gage	155	140-150	Active		
X-06R	Mobil Oil Corp Torrance Refinery	193034.67	52805	Gage	202	187-197	Active		
X-07R	Mobil Oil Corp Torrance Refinery	192767.05	52448.1	Gage	110.5	80-110	Active		
X247	Mobil Oil Corp Torrance Refinery	190893.81	58250.11	Gage	81	71-81	Active		
X247 2"	Mobil Oil Corp Torrance Refinery	190893.81	58250.11	Gage	88	87-88	Active		
X2471"E	Mobil Oil Corp Torrance Refinery	190893.81	58250.11	Perched	27	17-27	Active		
X2471"W	Mobil Oil Corp Torrance Refinery	190893.81	58250.11	Perched	45	35-45	Active		
MW-1	Mobil Service Station 18-MAP	200194.258	54768.8152	UBA	56	25.5-55.5	Active		

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WELL IDENTIFIER	PROPERTY/FACILITY	COORDINATES		HYDROSTRATIGRAPHIC UNIT	TOTAL DEPTH (feet bls)	SCREENED INTERVAL (feet bls)	WELL STATUS	2003/2004	2003
		X	Y					WATER LEVEL DATA	ANALYTICAL DATA
MW-2	Mobil Service Station 18-MAP	200236.263	54747.5577	UBA	59	29-59	Active		
MW-3	Mobil Service Station 18-MAP	200246.283	54785.797	UBA	56	24-54	Active		
MW-4	Mobil Service Station 18-MAP	200246.283	54821.6938	UBA	Unknown	Unknown	Active		
MW-5	Mobil Service Station 18-MAP	200291.557	54783.0905	UBA	Unknown	Unknown	Active		
MW-6	Mobil Service Station 18-MAP	200328.266	54745.1483	UBA	Unknown	Unknown	Active		
BF-01	Montrose	196346	57478	BS	126.5	113.5-124	Active		
BF-02	Montrose	196713	57054	BS	128	114-124.5	Active		
BF-03	Montrose	196994	57361	BS	125.5	113.5-124	Active		
BF-04	Montrose	197012	57096	BS	126	112-123	Active		
BF-05	Montrose	197815	57220	BS	135	122-132	Active		
BF-06	Montrose	197723	56796	BS	132	115-125	Active		
BF-07	Montrose	197466	56517	BS	119	106-116	Active		
BF-08	Montrose	196897	56422	BS	126	115-125	Destroyed		
BF-09	Montrose	196759	57326	BS	129	107-128	Active		
BF-10	Montrose	199614	55457	BS	131	120-130	Active		
BF-11	Montrose	198916	53408	BS	124	104-124	Active		
BF-12	Montrose	200024	54053	BS	120	110-120	Active		
BF-13	Montrose	199707	56474	BS	138	117-137	Active		
BF-14	Montrose	198577	55655	BS	122	111-121	Active		
BF-15	Montrose	197964	55531	BS	114	98-113	Active		
BF-16	Montrose	198391	53353	BS	130	103-124	Active		
BF-17	Montrose	199531	53712	BS	124	100-120	Active		
BF-18	Montrose	196366	58108	BS	145	113-143	Destroyed		
BF-19	Montrose	197846	57936	BS	135	128-133	Active		
BF-20	Montrose	195849.988	56620.6441	BS	130	110-129	Active		
BF-21	Montrose	197207	54672	BS	123	96-121	Active		
BF-22	Montrose	198001	53155	BS	120	87-117	Active		
BF-23	Montrose	198961	56000	BS	120	101-116	Active		
BF-24	Montrose	198768	54380	BS	122	96-121	Active		
BF-25	Montrose	199891	52572	BS	115	94-104	Active		
BF-26	Montrose	200185	52085	BS	110	90-105	Active		
BF-27	Montrose	199628	52091	BS	122	101-121	Active		
BF-28	Montrose	200609	52765	BS	115	95-110	Active		